DVD PLAYER
CCC

XD-DV270

OPERATING INSTRUCTIONS
CCC

En (English)

CCC

8A-AV5-902-01
010130AMK-Y-T

HRJ HEJ

AIWA CO.,LTD.
http://www.aiwa.co.jp

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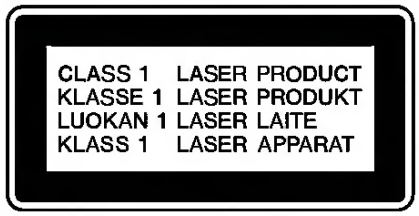
WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This DVD player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the exterior.



CAUTION!

Invisible laser radiation when open and inter locks defeated. Avoid exposure to beam.

PRECAUTIONS

Read the Operating Instructions carefully and completely before operating the unit. Be sure to keep the Operating Instructions for future reference. All warnings and cautions in the Operating Instructions and on the unit should be strictly followed, as well as the safety suggestions below.

Installation

1 **Water and moisture** — Do not use this unit near water, such as near a bathtub, sink, swimming pool, or the like.
2 **Heat** — Do not use this unit near sources of heat, including heating vents, stoves, or other appliances that generate heat. This unit should not be placed in temperatures less than 5˚C or greater than 40˚C.
3 **Mounting place** — Place the unit:
- on a flat , even surface
- away from strong magnetic fields
- at least one meter away from any radios or receivers

DO NOT PLACE HEAVY OBJECTS ON THE UNIT, OTHERWISE DISC TRAY OF THIS UNIT MAY NOT BE OPENED.

4 **Ventilation** — The unit should be situated with adequate space around it so that proper heat ventilation is assured. Allow a clearance of 10 cm from the rear and the top of the unit, and 5 cm from each side.
- Do not place the unit on a bed, rug, or similar surface that may block the ventilation openings.
- Do not install the unit in a bookcase, cabinet, or airtight rack where ventilation may be impeded.

5 **Foreign objects and liquid** — Be careful that foreign objects or liquid do not enter the unit through the ventilation openings.
6 **Carts and stands** — The unit should be moved with care when placed or mounted on a stand or cart. Sudden stops, excessive force, or an uneven surface may cause the unit or cart to fall over.
7 **Condensation** — Moisture may form on the pickup lens when:
- This unit is moved from a cold spot to a warm spot
- A heating system has just been turned on
- The unit is used in a very humid room
- The unit is cooled by an air conditioner

When this unit has condensation inside, it may not function normally. Should this occur, leave the unit for a few hours, then try to operate again.

Electric power

1 **Power sources** — Connect this unit only to power sources specified in the Operating Instructions, and as marked on the unit.
2 **AC power cord**
- When disconnecting the AC power cord, pull it out by the AC power plug. Do not pull the cord itself.
- Never handle the AC power plug with wet hands, as this could result in fire or electrical shock.
- Power cords should be firmly secured to avoid being severely bent, pinched, or walked upon. Pay particular attention to the cord from the unit to the power socket.
- Avoid overloading AC power plugs and extension cords beyond their capacity, as this could result in fire or electrical shock.

3 **When not in use** — Unplug the AC power cord from the AC outlet if the unit will not be used for several months or more. When the cord is plugged in, a small electrical current continues to flow into the unit, even if the power is turned off.
4 **In case of lightning** — Immediately disconnect the AC power cord from the AC outlet.

Maintenance

Clean the unit only as recommended in the Operating Instructions.

Damage requiring service

Have this unit serviced by a qualified service technician if:
- The AC power cord or plug has been damaged
- A foreign object or liquid has entered the unit
- The unit has been exposed to rain or water
- The unit does not seem to operate normally
- The unit exhibits a marked change in performance
- The unit has been dropped, or the cabinet has been damaged

DO NOT OPEN THE CABINET AND ATTEMPT TO SERVICE THE UNIT YOURSELF.

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Features

DVD: providing a completely new dimension in video entertainment.

- **With the multi-angle function*** you can select a viewing angle of scenes shot from multiple camera angles and recorded on the disc.
- **With the parental lock function*** you can prevent playback of specified discs unsuitable for certain audiences.

*All of the above functions are dependent on the DVD software.

High quality digital audio and images

- **Compatible with super video CDs, video CDs and audio CDs as well as DVDs**
- **MP3 playback**

Accessory checklist

Remote control (1)
Audio cord (1)
Video cord (1)
Operating Instructions

INTRODUCTION

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BEFORE USE

Please read the following before operating the DVD player.

Supported disc formats

This DVD player can play discs with the following marks only.

DVD VIDEO™	DVDs (8 cm disc/12 cm disc)
COMPACT disc DIGITAL VIDEO	Super video CDs (SVCDs) Video CDs (VCDs) (8 cm disc/12 cm disc)
COMPACT disc DIGITAL AUDIO	Audio CDs (8 cm disc/12 cm disc)

In addition, this unit can be played back a CD-R or CD-RW that contains audio titles or MP3 files.

NOTES

- Depending on the conditions of the recording equipment or the CD-R/RW disc itself, some CD-R/RW discs can not be played on this unit.
- The unit can not play back the CD-R/RW discs that contain no data or different kinds of formatted data other than MP3.
- Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.
- Do not use irregular shape CDs (example: heart-shaped, octagonal ones). It may result in malfunctions.

Notes on color system

This unit is designed for the both PAL and NTSC color system.

Notes on DVDs, super video CDs and video CDs

Some playback operations of DVDs, super video CDs and video CDs may be intentionally fixed by software manufacturers. As this player plays DVDs, super video CDs and video CDs according to disc contents designed by the software manufacturer, some playback features of this player may not be available, or other functions may be added.
Also refer to the instructions supplied with the DVDs, super video CDs and video CDs.
Some DVDs made for business purposes may not be played on this player.

Region code of the DVD player and DVDs

This DVD player is designed and manufactured for playback of region "3" encoded DVD software. Region code labels appear on the labels of some DVD discs to indicate which type of player can play those discs. Unless "3" is included in these labels, or "ALL" appears on the DVD disc labels, those discs cannot be played on this player. If you try to play these discs, the message "INVALID REGION" will appear on TV screen. Some DVD discs may not have a region code label even though their playback is prohibited by area limits.

Note on DTS-encoded CDs

When playing DTS-encoded CDs, excessive noise will be exhibited from the analog stereo outputs. To avoid possible damage to the audio system, the consumer should turn down the volume before playing back such a disc, adjust the volume gradually, and keep the volume level low. To enjoy DTS™ playback, an external 5.1 channel DTS™ decoder system must be connected to the digital output of this unit.

Disc-related terms

Title (DVD only)

The longest section of a picture or a musical piece on a DVD; a movie for a picture piece on video software, or an album for a musical piece on audio software. Each title is assigned a title number enabling you to locate the title you want.

Chapter (DVD only)

Sections of a picture or a musical piece that are smaller than titles.
A title is composed of several chapters. Each chapter is assigned a chapter number, enabling you to locate the chapter you want. Depending on the disc, there may be no chapter recorded.

Track (Super video CD, video CD and audio CD)

Sections of a picture or a musical piece on a super video CD, a video CD or an audio CD. Each track is assigned a track number, enabling you to locate the track you want.

Scene

On a super video CD or a video CD with PBC (playback control) functions, moving pictures and still pictures are divided into sections called "Scenes". Each scene is displayed in the menu screen and assigned a scene number, enabling you to locate the scene you want.
A scene is composed of one or several tracks.

Types of video CDs

There are two types of video CD (VCD)s.

Video CDs equipped with PBC (Version 2.0)

PBC (playback control) allows you to interact with the system via menus, search functions or other typical computer-like operations. Moreover, still pictures of high resolution can be played, if they are included in the disc.

Video CDs not equipped with PBC (Version 1.1)

Operated in the same way as audio CDs, these discs allow playback of video pictures as well as sound, but they are not equipped with PBC.

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Notes on MP3

An MP3 file stores audio data compressed using MPEG1, the audio layer-3 file-coding scheme.
In this manual, we refer to what are called "folder" and "file" in PC terminology as "album" and "track".

Notes on playing MP3

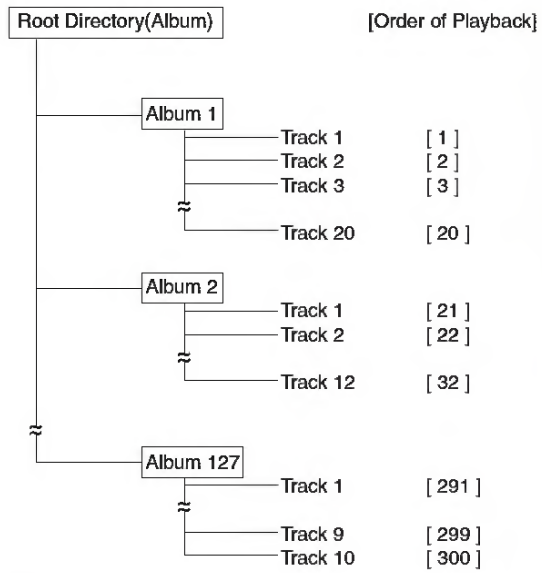
- An MP3 track must be recorded on a disc in the format compliant with ISO 9660. Note, however, that the unit may not play tracks in the order they were recorded.
- The maximum allowable number of tracks and albums in a disc are as follows:
  - number of tracks : 300
  - number of albums : 127
- The maximum allowable depth of nested albums is 2, including the root album (directory).
- If a disc contains audio tracks and MP3 tracks, the unit cannot play.
- As for a multi-session disc, the unit play only the first session.
- The unit can play only MP3 tracks which were converted with a sampling frequency of 44.1 kHz and a fixed bit rate of 128 kbps.
- The unit may not play MP3 tracks recorded using a packet writing utility.
- The unit can play only MP3 tracks having a file extension ".mp3".
- It may take 30 seconds or more before the unit can start play of MP3 tracks, depending on the number of recorded tracks and the complexity of the album tree.
- If you play a non-MP3 track that has the ".mp3" file extension, you may hear some noise.
- The unit does not output digital signals while playing MP3 tracks.
- Only the following function buttons works while playing MP3 tracks:
  - **PLAY ►, STOP ■, PAUSE ❚❚, Forward SKIP ►►I, Reverse SKIP I◄◄, ON SCREEN DISPLAY ON/OFF, numbered buttons, OPEN/CLOSE.**

Notes on display indications during play

- The elapsed playing time may not be displayed correctly for MP3 tracks.
- Any names of albums and tracks are not displayed.

The order of playing back MP3

The unit only plays MP3 tracks in the following order.


Root Directory(Album)
[Order of Playback]
Album 1
Track 1 [1]
Track 2 [2]
Track 3 [3]
Track 20 [20]
Album 2
Track 1 [21]
Track 2 [22]
Track 12 [32]
Album 127
Track 1 [291]
Track 9 [299]
Track 10 [300]

Notes on creating MP3 discs

- When converting audio data to MP3
  To enjoy high sound quality, create MP3 files with a sampling frequency of 44.1 kHz and a fixed bit rate of 128 kbps.
- When creating MP3 discs
  Do not store more than 127 albums in a disc. Also, keep the total number of albums and tracks 300 or less in a disc.
- To play tracks in the order they were recorded
  1. Use a writing software capable of recording MP3 tracks (files) in numerical and alphabetical order. For details on using the software, refer to the operating instructions supplied with the software.
  2. Use only one album. (Do not create a sub-album within an album.)
  3. Include a two or three-digit number at the beginning of each album or track name so that the albums and tracks are played in order.

<example of recommended names>
01XXXXX.mp3
02XXXXX.mp3
03XXXXX.mp3
04XXXXX.mp3
05XXXXX.mp3
<example of names not recommended>
1XXXXX.mp3
5XXXXX.mp3
10XXXXX.mp3
15XXXXX.mp3
20XXXXX.mp3
(Numbers at the beginning have different digit number. The tracks will not be played in this order but played in the order of "1", "10", "15", "20" and "5".)

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CONTINUE

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Handling the unit

When shipping the this unit
The original shipping carton and packing materials come in handy. For maximum protection, re-pack the unit as it was originally packed at the factory.

When setting the this unit
The picture and sound of a nearby TV, VCR or radio may be distorted during DVD playback. In this case, position the player away from the TV, radio or VCR, or turn off the player after removing the disc.

To keep the surface clean
Do not use volatile liquids, such as insecticide spray, near the player. Do not leave rubber or plastic products in contact with the player for a long period of time. They will leave marks on the surface.

Handling discs

Do not touch the playback side of the disc.
Hold the disc by the edges so that fingerprints will not get on the surface.
Do not stick paper or tape on the disc.

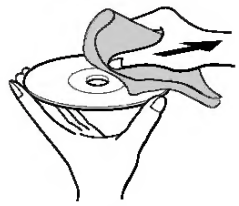
Cleaning the unit

To clean the cabinet
Use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents, such as alcohol, benzine or thinner, as these might damage the surface of the player.

To obtain a clear picture
This unit is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn down, the picture quality will be poor.
Regular inspection and maintenance are recommended after every 1,000 hours of use. (This depends on the operating environment.)
For details, please contact your Aiwa dealer.

Cleaning discs

Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.



Do not use strong solvents such as alcohol, benzine, thinner, commercially available cleaners or anti-static spray intended for analog records.

Storing discs

After playing, store the disc in its case.
Do not expose the disc to direct sunlight or sources of heat, or leave it in a parked car exposed to direct sunlight, as there may be a considerable temperature increase inside the car.

Notes on copyright

It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyright material without permission.
This product features the copy protection function developed by Macrovision. Copy protection signals are recorded on some discs. When recording and playing the pictures of these discs on a VCR, the picture noise will appear.
This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

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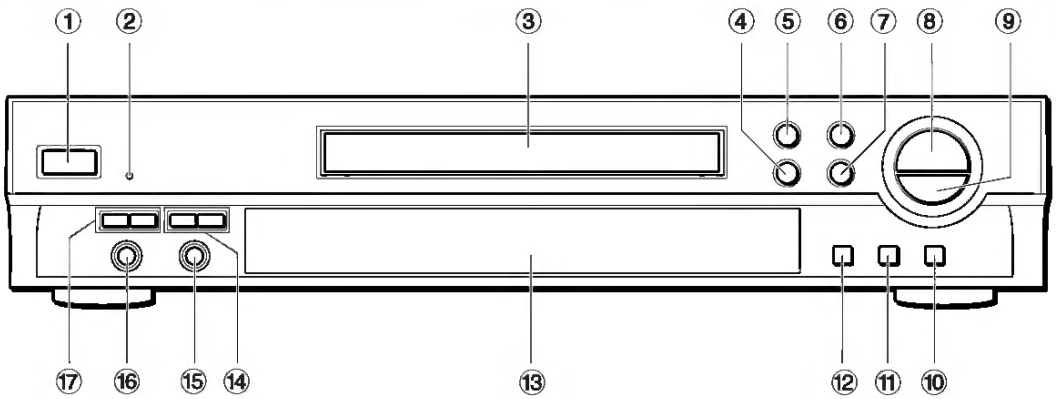
PARTS AND CONTROLS

The instructions in this manual refer mainly to the buttons on the remote control. Buttons on the main unit with the same names as those on the remote control can be used as well.

Front panel



① **POWER** button
Press to switch on and off the main power of this unit.

② ⏻**STANDBY/ON** indicator
- Lights in red when the unit is in standby mode.
- Lights off when the unit is turned on or the main power is off.

③ **Disc tray**
Loading and removing discs.

④ ⏮ **B SKIP** button
Press to return the beginning of the current track or skip back the previous track.

⑤ ⏏ **OPEN/CLOSE** button
Press to open and close the disc tray.

⑥ ⏸ **PAUSE** button
Press to pause a playback.

⑦ ⏭ **F SKIP** button
Press to skip the next track.

⑧ ▶ **PLAY** button
Press to begin a playback.

⑨ ■ **STOP** button
Press to stop playing back a disc.

⑩ # **KEY CONTROL** button
Press repeatedly to adjust the key upward while playing karaoke.

⑪ ♮ **KEY CONTROL** button
Press to return to the normal key while playing karaoke.

⑫ ♭ **KEY CONTROL** button
Press repeatedly to adjust the key downward while playing karaoke.

⑬ **Display window**
Displays the information of unit's status.

⑭ **MIC 2** ▲/▼ (volume) button
Adjusts the sound volume of the microphone connected to MIC 2 jack.

⑮ **MIC 2** jack
Connects a microphone.

⑯ **MIC 1** jack
Connects a microphone.

⑰ **MIC 1** ▲/▼ (volume) button
Adjusts the sound volume of the microphone connected to MIC 1 jack.

CONTINUE

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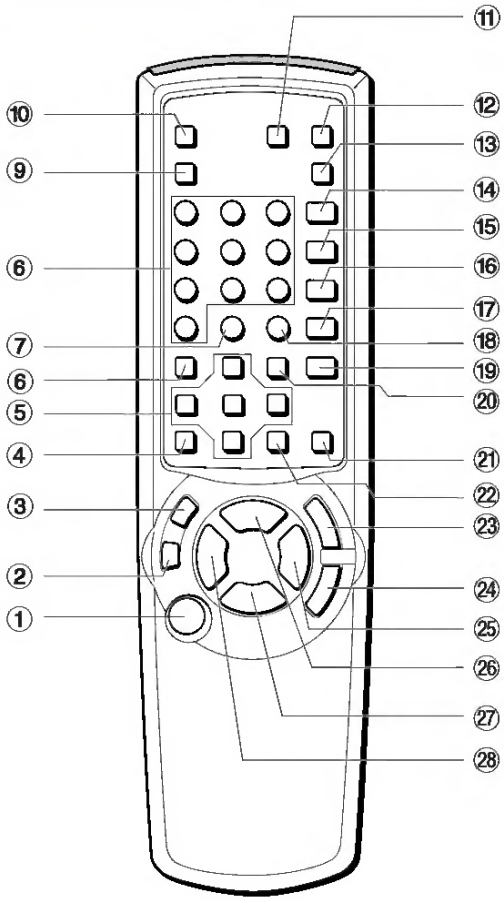
Remote control



① **POWER** button
Press to turn on and off the unit.

② **ON SCREEN DISPLAY ON/OFF** button
Press repeatedly to display the On Screen Display information.

③ ❚❚ button
Press to pause a playback.

④ **RETURN** button
Press to display the video CD menu itself while playing back a super video CD or video CD (version 2.0).

⑤ **▲/▼/◀/▶/ENTER** buttons
- Press a ▲/▼/◀/▶ cursor button to select an item.
- Press **ENTER** to execute or fix the selected item on the disc menus.

⑥ **TOP MENU** button
- Press to display the title menu on the DVD.
- Press to display the digest menu screen while playing back a super video CD or video CD (version 2.0).

⑦ **CLEAR** button
- Press to clear the MARK memory.
- Press to cancel the wrong track number when programming tracks on the disc.

⑧ **Numbered** buttons
Press to select a track or title directly.

⑨ **MARK** button
Press to mark any point in a disc (except for MP3 disc) during playback.

⑩ **OPEN/CLOSE** button
Press to open and close the disc tray.

⑪ **ZOOM** button
Press repeatedly to enlarge the picture while playing back a DVD,super video CD or video CD.

⑫ **SURROUND** button
Press to turn on the 3D Surround effect.

⑬ **A-B** Repeat button
Press to memorize the point you want to repeat.

⑭ **ANGLE** button
Press to change the angle while playing back a DVD where the multiple viewing angles have been recorded.

⑮ **AUDIO SELECT** button
Press to select the soundtrack language while playing back a DVD or super video CD.

⑯ **SUBTITLE SELECT** button
Press to change the subtitle language while playing back a DVD.

⑰ **RANDOM** button
Press to execute a random (shuffle) playback on a super video CD, video CD or audio CD.

⑱ **PROGRAM** button
Press to execute a programmed playback on a super video CD, video CD or audio CD.

⑲ **KARAOKE** button
Press to display the karaoke menu.

⑳ **MENU** button
- Press to display the menu programs on the DVD.
- Press repeatedly to turn on and off Play Back Control (PBC) on a super video CD or video CD (version 2.0).

㉑ **SLOW** button
Press to execute a slow playback when playing back a DVD, super video CD or video CD.

㉒ **SETUP** button
Press to display the setup menu on the TV screen when stopped.

㉓ ▶▶ button
Hold down to play back a disc forward.

㉔ ◀◀ button
Hold down to play back a disc in reverse.

㉕ ▶▶❙ button
Press to skip the next track.

㉖ ▶ button
Press to begin a playback.

㉗ ■ button
Press to stop playing back a disc.

㉘ ❙◀◀ button
Press to return the beginning of the current track or skip back the previous track.

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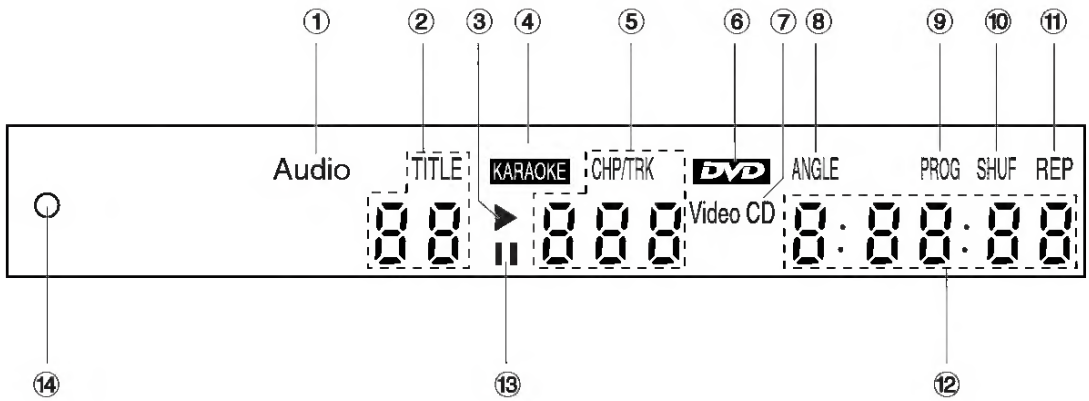
Display window

This unit shows On-Screen Display messages on the screen of the TV set to which this unit is connected, as well as those on the display window of the unit.
The On-Screen Display messages, which accompany each operation of the unit, make operation simple and easy especially when playing DVDs or video CDs. They are also displayed when pressing the ON SCREEN DISPLAY ON/OFF button on the remote control.
The instructions in this manual refer mainly to the On-Screen Display messages.



① **Audio** CD indicator
Lights when an audio CD is loaded.

② **TITLE** Number indicator
- Displays the number of the title being played while playing back a DVD.
  Displays the total number of the titles on the DVD when stopped.

③ ► **PLAY** indicator
Lights when playing back.

④ **KARAOKE** indicator
Lights while Karaoke function working.

⑤ **CHP/TRK Number** indicator
- Displays the number of the chapter being played while playing a DVD.
  Displays the total number of the chapters on the disc when stopped.
- Displays the number of the track being played while playing a super video CD, video CD, audio CD or MP3 disc.
  Displays the total number of the tracks on the disc when stopped.

⑥ **DVD** indicator
Lights when a DVD is loaded.

⑦ **Video CD** indicator
Lights when a super video CD or video CD is loaded.

⑧ **ANGLE** indicator
Lights when a multi-angle scene comes on, while playing back a DVD.

⑨ **PROG** indicator
Lights during programmed playback.

⑩ **SHUF** (RANDOM) indicator
Lights during random playback.

⑪ **REP** indicator
Lights when pressing A-B button on the remote control.

⑫ **Time** counter
- The elapsed time of current track is displayed while playing a super video CD, video CD, audio CD or MP3 disc.
  The total elapsed time is displayed while playing a DVD.
- The total playing time is displayed when stopped. (The total playing time is not displayed when an MP3 disc is loaded.)

⑬ ❚❚ **PAUSE** indicator
Lights during still (pause) mode.

⑭ **Dolby Digital** indicator
Lights when a DVD which is recorded with Dolby Digital is loaded.

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CONNECTIONS

Before connection, identity the type of your audio equipment or of the TV set referring to the following chart. Then decide the connection and the setup menu according to the types.

NOTES

- The player cannot be connected to a TV set which is not equipped with a video input connector .
- Use a commercially available stereo-monaural audio cord when connecting to a monaural TV set.

Audio system to be connected	Input jack of equipment to be connected to the DVD player	Referring Letter
None (only the television is connected)	———	See A.
A stereo system or an amplifier	Digital input jack	See B.
	Analog audio input jacks (L/R)	See C.
An AV receiver equipped with Dolby Digital decoder or DTS decoder	Digital input jack	See D.
An AV receiver equipped with Dolby Pro Logic Surround	Analog audio input jacks (L/R)	See E.

Before making connections

- **Connect the AC cords of the unit and external equipment at the end, after finishing the other connections.**
- Insert the plugs completely into the jacks. Loose connections may produce a humming sound or other noise interference.
- When using an optical connection, remove the dust cap from the DIGIT AL AUDIO OUT OPTICAL jack on the rear of this unit. Keep the cap in store. When not using optical connections, the dust cap should be in place.
- Refer to the instructions for the connected equipment.

CAUTION

Do not select " **BITSTREAM**" in the "AUD OUT" when connecting to an AV receiver not equipped with a Dolby Digital decoder or DTS decoder (with an optical or coaxial connecting cord).
Merely attempting to play a DVD may cause a high level of noise which could be harmful to your ears and damage the speakers. In such a case, be sure to select "DIGIT AL PCM" in the "AUD OUT".

NOTES

- When the picture noise appears while copy-protected DVDs are played, connect the unit directly to a TV set. Do not connect through a VCR, TV/VCR or AV selector .
- For the speakers and their connection, refer to the instructions for the AV receiver .

CAUTION

Do not place heavy objects on this unit, otherwise disc tray of this unit may not be opened.

For customers living in Burma, Cambodia, Philippines, Taiwan or Republic of Korea

In the above countries, TV broadcasting system is NTSC.
To use this unit with the NTSC TV set, TV SYS in the setup menu of this unit must be changed to NTSC, after connecting.
For more details, refer to "Basic operations" on page 32 and "TV SYS" on page 34.

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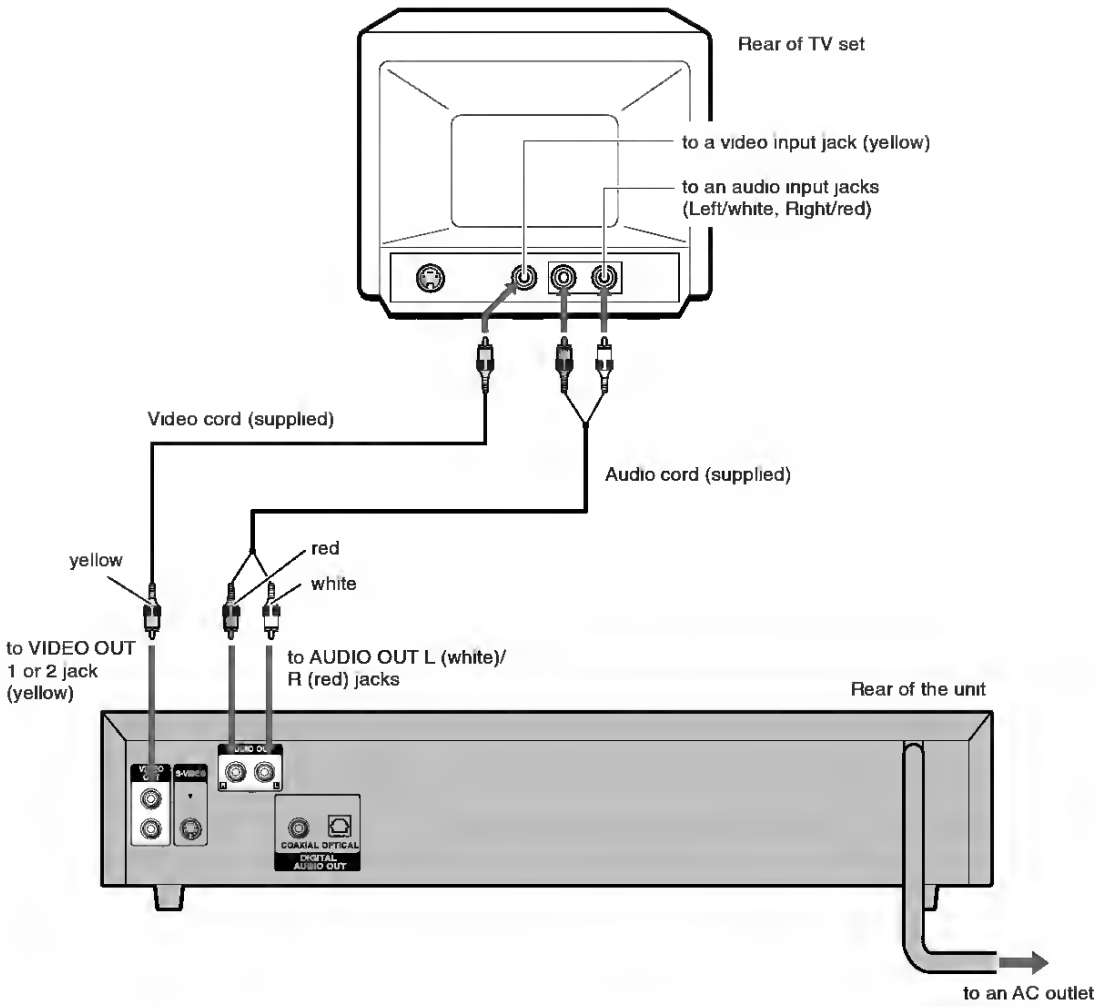
A Connecting to a TV set only



When your TV set is equipped with an S-video input terminal, see page 16.

Set the setup menu correctly after connecting!
According to the audio equipment and TV set to which this unit is connected, set the "TV TYPE" of the setup menu correctly referring to the following below .
See "CHANGING SETUP VALUE" on page 32 in detail.

TV TYPE
When your TV set is a conventional-screen size TV:
[4:3 LB]
When your TV set is a wide-screen size TV:
[16:9]

NOTE
When the picture noise appears while copy-protected DVDs are played, connect the unit directly to a TV set. Do not connect through a VCR, TV/VCR or AV selector .

CONTINUE

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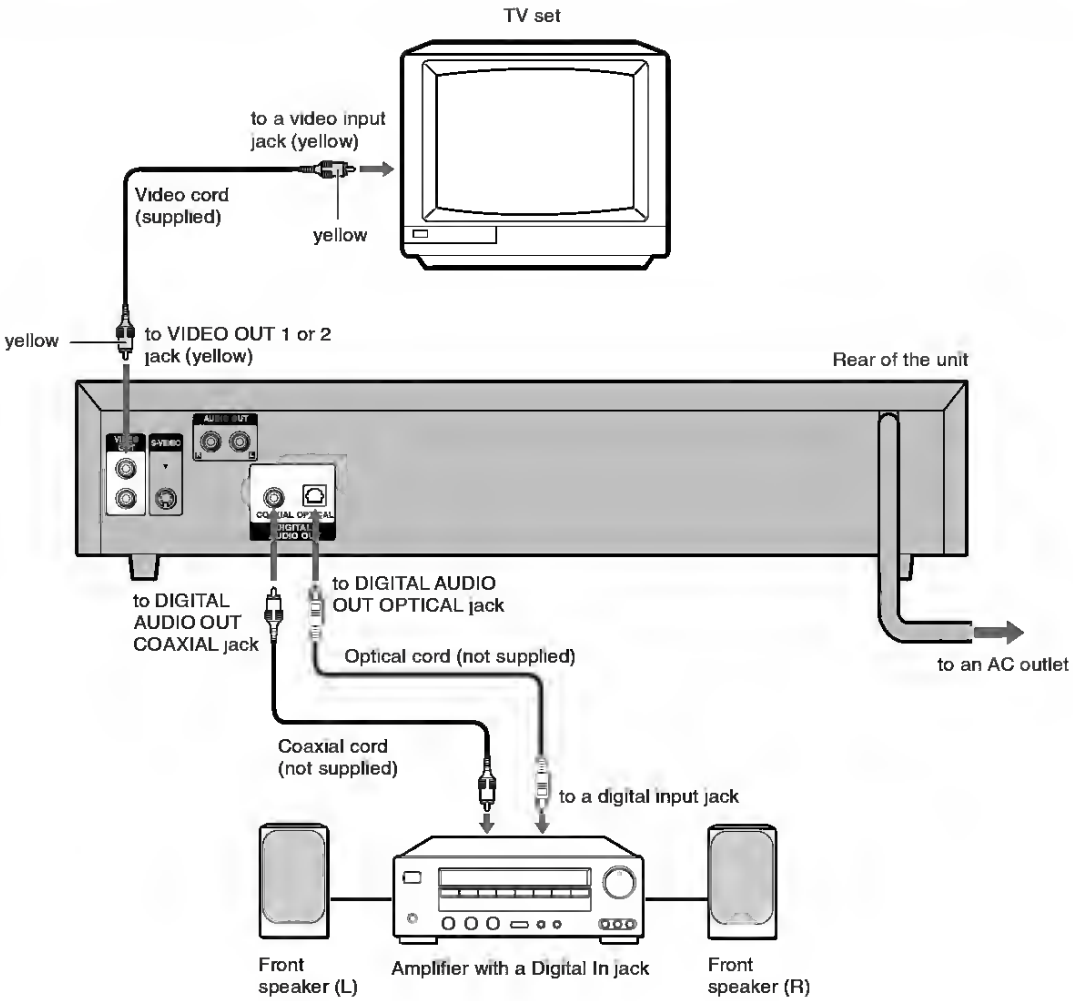
B Connecting to a TV set and an amplifier with a Digital In jack

Use either the commercially available optical cord or 75 ohm coaxial cord when connecting this unit to an amplifier with a Digital In jack. The supplied video cord is also available instead of the coaxial cord.


TV set
to a video input jack (yellow)
Video cord (supplied)
yellow
yellow
to VIDEO OUT 1 or 2 jack (yellow)
Rear of the unit
to DIGITAL AUDIO OUT COAXIAL jack
to DIGITAL AUDIO OUT OPTICAL jack
Optical cord (not supplied)
to an AC outlet
Coaxial cord (not supplied)
to a digital input jack
Front speaker (L)
Amplifier with a Digital In jack
Front speaker (R)

When your TV set is equipped with an S-video input terminal, see page 16.

Set the setup menu correctly after connecting!
According to the audio equipment and TV set to which this unit is connected, set the "AUD OUT" and "TV TYPE" of the setup menu correctly referring to the following below. See "CHANGING SETUP VALUE" on page 32 in detail.

AUD OUT
[DIGITAL PCM]

TV TYPE
When your TV set is a conventional-screen size TV:
[4:3 LB]
When your TV set is a wide-screen size TV:
[16:9]

NOTE
When the picture noise appears while copy-protected DVDs are played, connect the unit directly to a TV set. Do not connect through a VCR, TV/VCR or AV selector.

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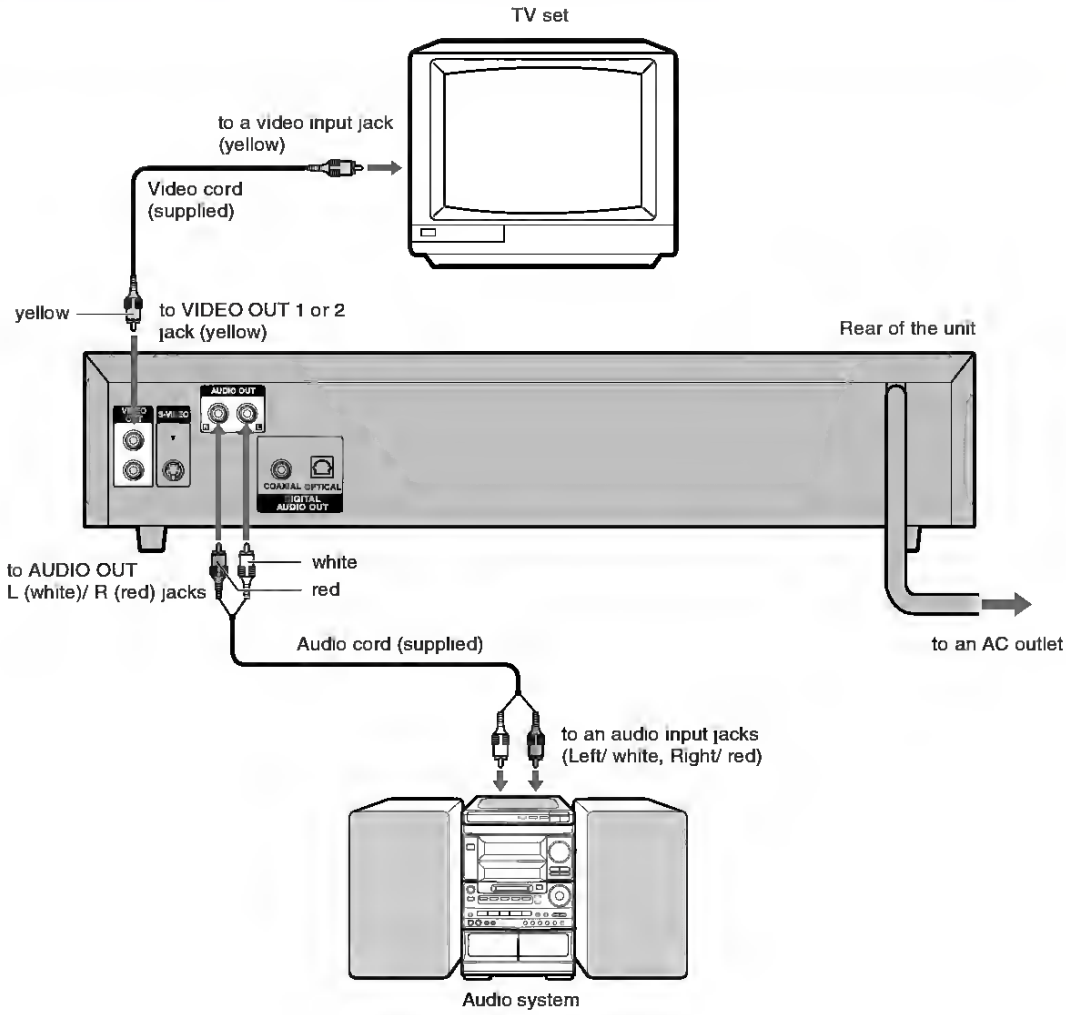
C Connecting to a TV set and an audio system



When your TV set is equipped with an S-video input terminal, see page 16.

Set the setup menu correctly after connecting!
According to the audio equipment and TV set to which this unit is connected, set the "TV TYPE" of the setup menu correctly referring to the following below .
See "CHANGING SETUP VALUE" on page 32 in detail.

TV TYPE
When your TV set is a conventional-screen size TV:
[4:3 LB]
When your TV set is a wide-screen size TV:
[16:9]

NOTE
When the picture noise appears while copy-protected DVDs are played, connect the unit directly to a TV set. Do not connect through a VCR, TV/VCR or AV selector .

CONTINUE

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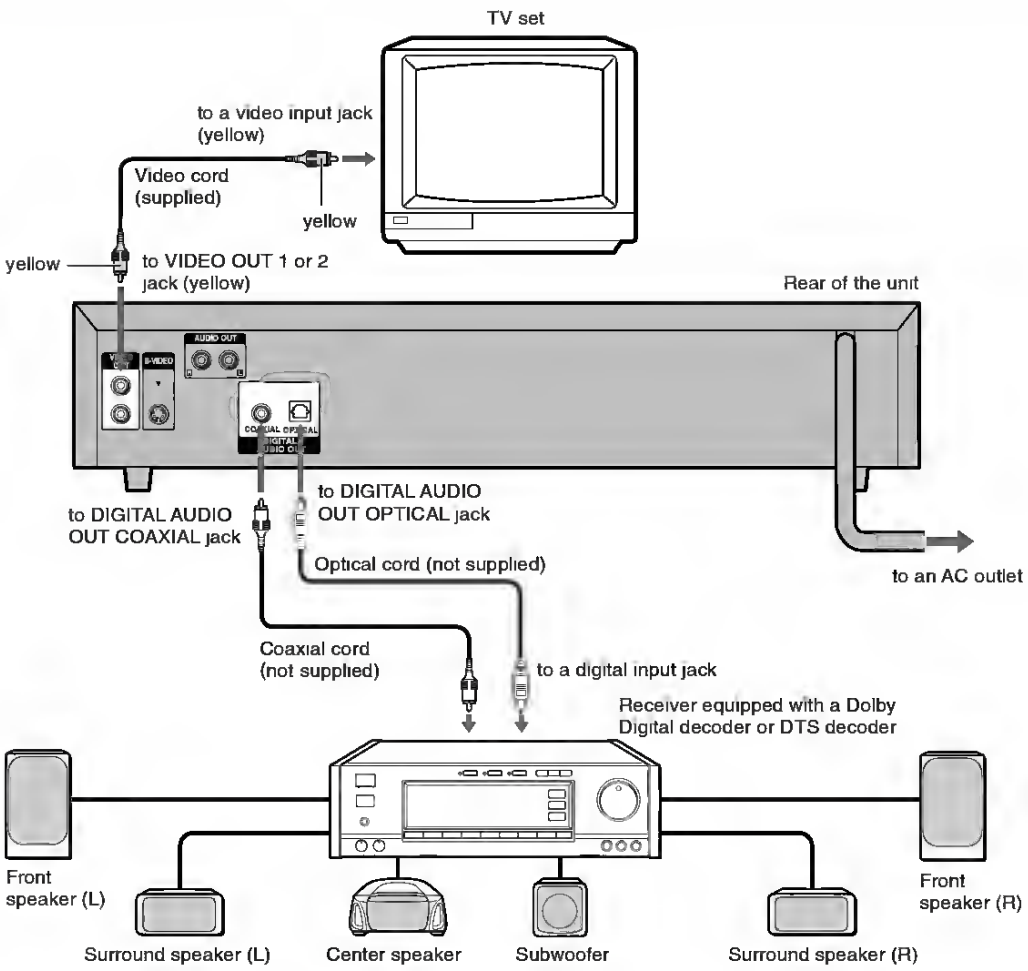
D Connecting to an AV receiver equipped with a Dolby Digital (AC-3) or DTS decoder

Use either the commercially available optical cord or 75 ohm coaxial cord when connecting this unit to an AV receiver with a Digital In jack. The supplied video cord is also available instead of the coaxial cord.



When your TV set is equipped with an S-video input terminal, see page 16.

Set the setup menu correctly after connecting!
According to the audio equipment and TV set to which this unit is connected, set the "AUD OUT" and "TV TYPE" of the setup menu correctly referring to the following below. See "CHANGING SETUP VALUE" on page 32 in detail.

AUD OUT
[BITSTREAM]

TV TYPE
When your TV set is a conventional-screen size TV:
[4:3 LB]
When your TV set is a wide-screen size TV:
[16:9]

NOTE
When the picture noise appears while copy-protected DVDs are played, connect the unit directly to a TV set. Do not connect through a VCR, TV/VCR or AV selector .

CAUTION
If the AV receiver is not equipped with a Dolby Digital or DTS decoder, do not select "**BITSTREAM**" in the "AUD OUT" when connecting the AV receiver with an optical or coaxial connecting cord.
Merely attempting to play a DVD may cause a high level of noise which could be harmful to your ears and damage the speakers. In such a case, be sure to select "DIGITAL PCM" in the "AUD OUT".

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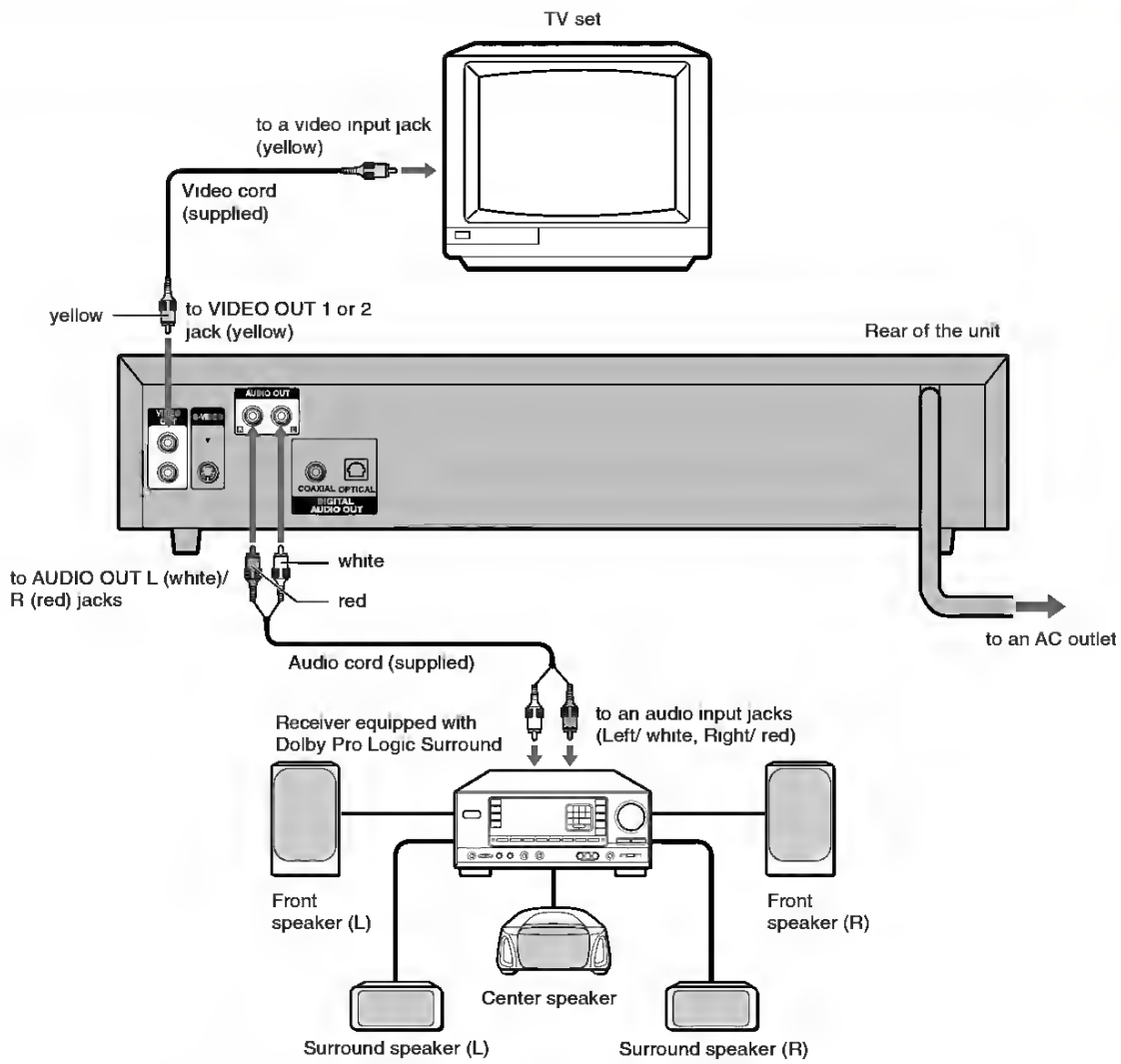
E Connecting to a TV set and an AV receiver with the Dolby Pro Logic Surround system



When your TV set is equipped with an S-video input terminal, see page 16.

Set the setup menu correctly after connecting!
According to the audio equipment and TV set to which this unit is connected, set the "TV TYPE" of the setup menu correctly referring to the following below .
See "CHANGING SETUP VALUE" on page 32 in detail.

TV TYPE
When your TV set is a conventional-screen size TV:
[4:3 LB]
When your TV set is a wide-screen size TV:
[16:9]

NOTE
When the picture noise appears while copy-protected DVDs are played, connect the unit directly to a TV set. Do not connect through a VCR, TV/VCR or AV selector .

CONTINUE

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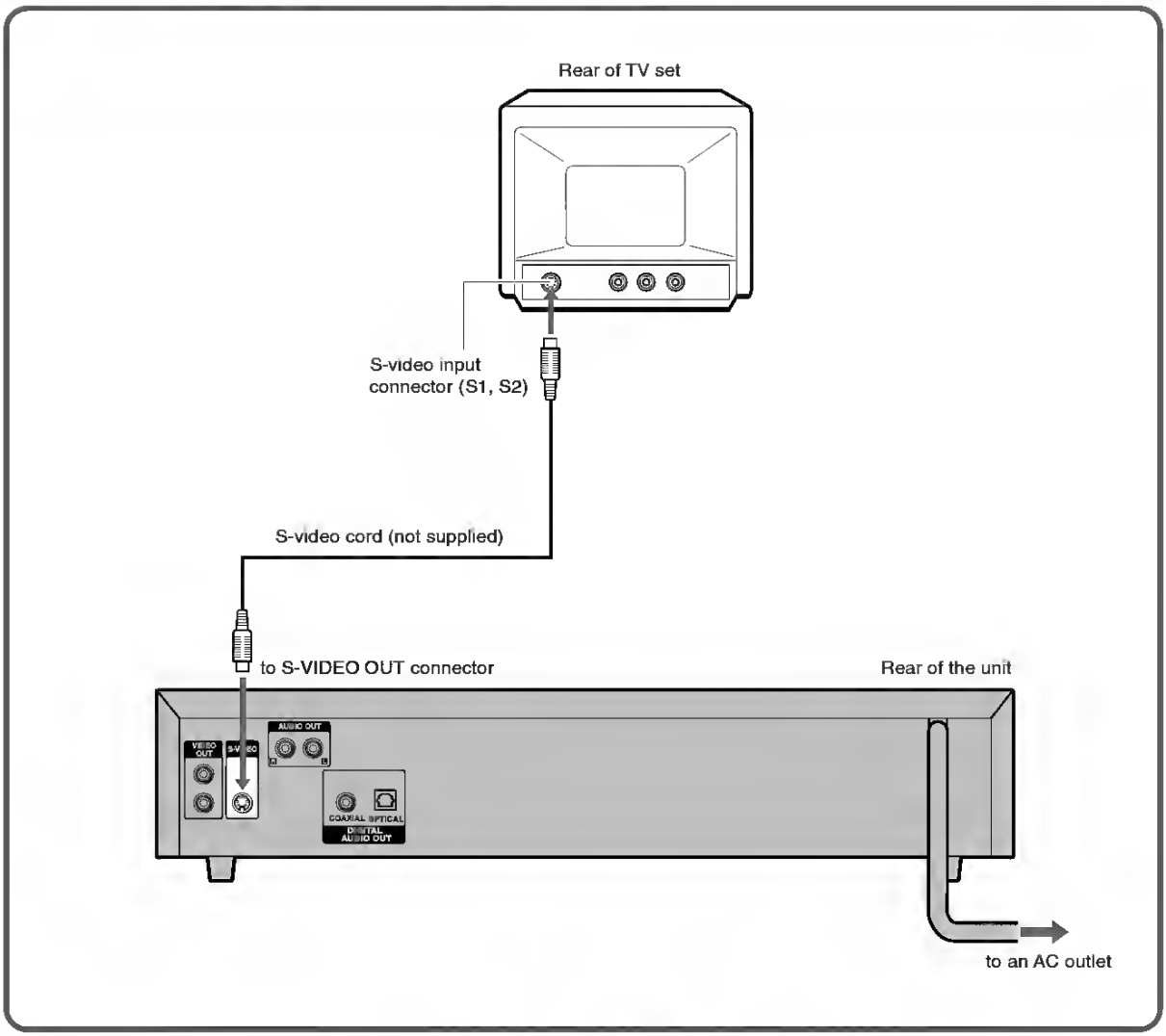
Connecting to a TV set equipped with S-video jack


Rear of TV set
S-video input connector (S1, S2)
S-video cord (not supplied)
to S-VIDEO OUT connector
Rear of the unit
to an AC outlet

Set the setup menu correctly after connecting!
Set the "TV TYPE" of the setup menu correctly referring to the following below .
See "CHANGING SETUP VALUE" on page 32 in detail.

TV TYPE

When your TV set is a conventional-screen size TV:
[4:3 LB]

When your TV set is a wide-screen size TV:
[16:9]

NOTES

- For the best possible picture clarity , it is recommended that an S (separate) video cord (not supplied) be used when connecting the unit to a TV set equipped with an S-video input terminal.
- When the picture noise appears while copy-protected DVDs are played, connect the unit directly to a TV set. Do not connect through a VCR, TV/VCR or AV selector .

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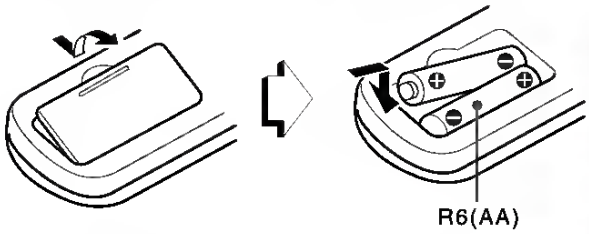
REMOTE CONTROL

Installing batteries

Detach the battery cover on the rear of the remote control, and insert two R6 (size AA) batteries with ⊕ and ⊖ aligned correctly .



When to replace the batteries

The maximum operational distance between the remote control and the sensor of the units should be approximately 7 meters. If this distance decreases, replace the batteries with new ones.

NOTES

- When operating with the remote control, point the top of the remote control toward the player .
- If the unit is not going to be used for an extended period of time, remove the batteries to prevent possible electrolyte leakage.
- The remote control may not operate correctly when:
  - The line of sight between the remote control and the unit is exposed to intense light, such as direct sunlight.
  - There is fluorescent lighting near the remote sensor in the display window .
  - Other remote controls are used nearby (those of a TV set, etc.).

ABOUT SYMBOLS

Although this unit can play DVDs, super video CDs, V ideo CDs, Audio CDs or MP3 discs, some of the functions are restricted by the kinds of discs.
In this operating instructions, the following symbols are used to make distinction.

DVD : Shows the function or the display for only DVDs.

SVCD : Shows the function or the display for only super video CDs.

VCD : Shows the function or the display for only video CDs.

CD : Shows the function or the display for only audio CDs.

MP3 : Shows the function or the display for only MP3 discs.

No symbols: The function works in common.

About the 🚫 symbol display

- The 🚫 symbol will be displayed on TV screen if you press a button which cannot be used or enter an incorrect number.
- Some discs may have places where they do not allow pressing of the STOP, SKIP, or other buttons. The 🚫 mark will be displayed on the screen if you press a button that is not allowed in such a place.

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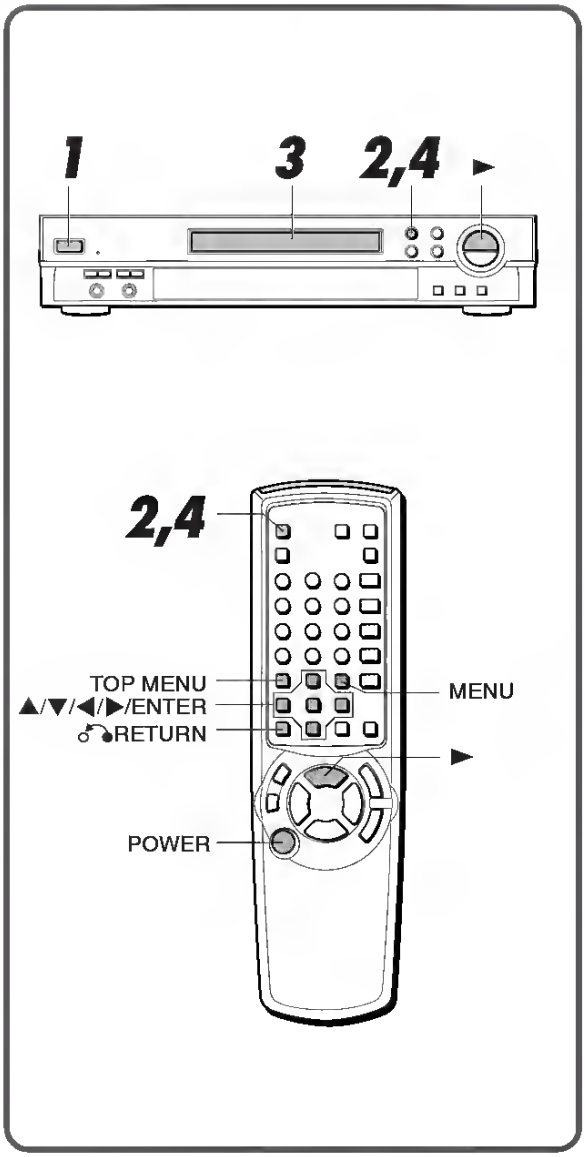
PLAYBACK



Getting ready to play

- Turn on the television, and set its video source (V ideo 1, Video 2, V ideo 3, etc.) to the one connected to this unit.
- Turn on the audio device connected to this unit. Set its input source to the one connected to this unit.

1 Press POWER on this unit.

On TV screen, "aiwa DVD VIDEO" screen is displayed.
In the display window , "- on-" is displayed then it will change to "no disc".

2 Press ⏏OPEN/CLOSE.

The disc tray opens.

3 Load a disc.

Place a disc in the tray guides (depression), with the label side facing up. When loading an 8-cm disc, place it in the inner depression.

4 Press ⏏OPEN/CLOSE.

The disc tray closes, and the DVD player automatically begins to play the disc.
If the disc does not begin to play , press ►.

DVD

SVCD VCD

CD

MP3

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When the menu screen is displayed
The menu screen may be displayed first after loading a DVD, super video CD or video CD (version 2.0) which contains a menu.

DVD
Use ▲▼◀▶ to select the program you would like to view, then press **ENTER** to begin playback. Press **TOP MENU** or **MENU** to return to the menu screen.

SVCD VCD
Use the numbered buttons to select the program you would like to view.
Press ↶**RETURN** to return to the menu screen.

For either DVD, super video CDs or video CDs (version 2.0), menu continuations and the exact operating procedures for using the menu may vary from disc to disc. Follow the instructions on the menu screen.

Moving the "aiwa DVD VIDEO" screen after 8 minutes
To prevent TV screen from burning up, the "aiwa DVD VIDEO" screen moves around on TV screen, either when 8 minutes elapsed without any operations after the unit had stopped or when 8 minutes elapsed without any operations after playing an audio CD or MP3 disc.
The "aiwa DVD VIDEO" screen does not move around only while displaying setup menu on TV screen, even if the unit stopped.

To turn the power off
Press **POWER** on the remote control. The unit enters the power standby mode, and the ⏻STANDBY/ON indicator turns red.

If 15 minutes have elapsed without performing any operations
This unit automatically returns to the power standby mode, when stopped without performing any operations for 15 minutes.
The unit does not return to the power standby mode, only while displaying setup menu on TV screen.

Play Back Control (PBC)

SVCD VCD

This unit equips Play Back Control (PBC) ON/OFF function. After turning off PBC, super video CDs or video CDs (version 2.0) can be played back as well as audio CDs, without returning to the menu screen.

1 Press MENU once either while playing or when stopped.

"PBC : [ON]" appears on TV screen.

2 Within 2 seconds, press MENU again to turn off PBC.

The PBC ON/OFF menu changes to "PBC : [OFF]" , then it will disappear after 2 seconds. If PBC is turned off while stopping, the unit automatically starts playback.

To turn on PBC
Repeat the step 1 and 2 above. The unit automatically will start playback.
When **OPEN/CLOSE** is pressed, the unit also automatically turns on PBC.

Digest menu

SVCD VCD

The pictures divided into 9 are displayed.

1 Press TOP MENU either while playing or when stopped.

When the unit plays back:
The current track playing is divided into 9 random intervals, then the pictures which were divided into 9 will be displayed on TV screen.

When the unit stops:
The each beginning of pictures up to the first 9 tracks on the disc will be displayed on TV screen.
If only one track is recorded on the disc, one picture is displayed.

2 Press the numbered buttons or press ▲/▼/◀/▶ to select the desired picture, then press ENTER or ►.

The unit will start playback from the selected point of the track.

NOTE
PBC function turns off when this function is activated.

CONTINUE

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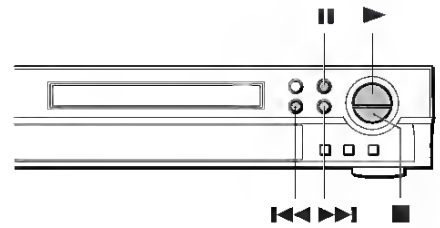

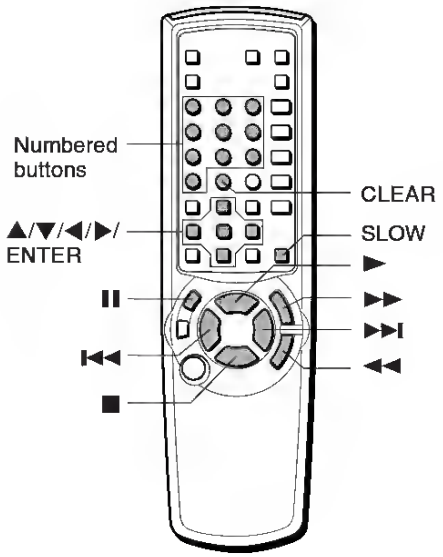

Performing fast forward, fast reverse, or skipping operations while turning on PBC may cause this unit to return to the menu screen.

Still (Pause)

Press ❚❚ during playback.

To return to normal playback
Press ▶ or **ENTER**.

Frame advance

DVD SVCD VCD

Press ❚❚ while the disc is paused.

Each time you press the button, the program advances one frame. There is no audio when doing Frame advance.

To return to normal playback
Press ▶ or **ENTER**.

Stopping playback

Press ■.

When ■ is pressed during playback, the unit remembers the point at which playback stopped. (resume function)

To resume playback from the point where it stopped
Press ▶ or **ENTER**.

To clear the point to be resumed
Press ■ again.
When ⏏**OPEN/CLOSE** is pressed to open the disc tray or when **POWER** is pressed to turn the power off, the point to be resumed is also cleared.

NOTES

- The disc continues to spin while the menu screen is displayed even if ■ is pressed. When you are finished using this unit, turn the power off affer pressing ■.
- Resume function does not work when PBC function is effective on the super video CD or video CD.
- As far as MP3 discs, the resume playback starts from the beginning of the track where it stopped.

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Fast Forward, Reverse

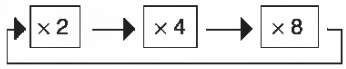
DVD SVCD VCD CD

Press ▶▶ or ◀◀ during playback.

Each time you press the button, the playback speed becomes faster as shown below.

DVD SVCD VCD

CD



To return to normal playback
Press ▶ or **ENTER**.

NOTE

There is no audio while playing DVD, super video CD or video CD.

Slow playback

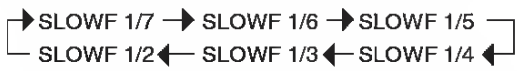
DVD SVCD VCD

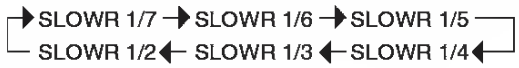
1 Press SLOW during playback.

"SLOWF 1/7" appears on TV screen and the unit goes into a forward slow playback.

2 Press ▶▶ or ◀◀ to change the slow playback speed.

"SLOWR 1/7" appears on TV screen and a reverse slow playback starts, when ◀◀ is pressed.
Each time you press the button, the slow playback speed changes as shown below.





To return to normal playback
Press ▶, **ENTER** or **SLOW**.

Skipping

Press ⏮ or ⏭.

Skip to the next chapter or track: ⏭
The disc position advances one chapter or track each time the button is pressed.
Return to the previous chapter or track: ⏮
In each disc, pressing ⏮ once skips to the beginning of the chapter (track) currently being played, and pressing ⏮ twice skips to the previous chapter.

NOTE

Depending on some super video CDs or video CDs which equipped with PBC, the unit may return to the menu screen when pressing ⏮ or ⏭.
In this case, turn off PBC (see page 19).

Direct skipping

SVCD VCD CD MP3

To use this function for super video CDs or video CDs (version 2.0), turn off PBC first (see page 19).

1 Press numbered buttons to select your desired track either while playing back or when stopped.

Example: To select track **3**
Press **3** on the remote control.
To select track **20**
Press **2**, **0** on the remote control.
When inputting a wrong number, press **CLEAR**.

2 Press ENTER or ▶.

Playback begins at the beginning of the selected track.

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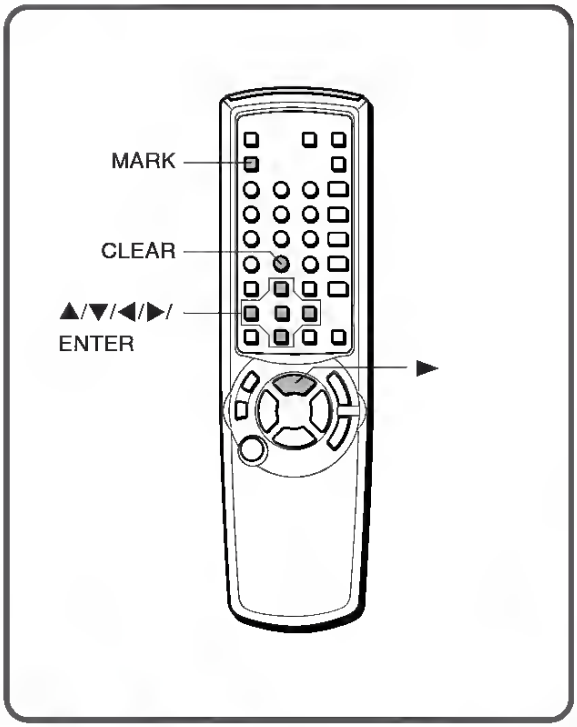
MARK PLAYBACK



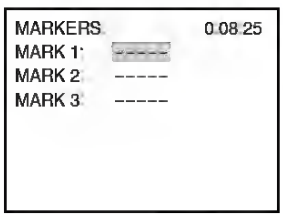
DVD SVCD VCD CD

Mark playback allows you to mark a scene or track on the disc, and the playback can be started from the marked point. Up to 3 points can be marked.

Marking

1 Press MARK during playback.

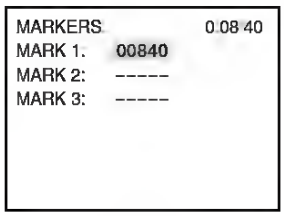
MARK menu appears on TV screen.



2 Press ▲/▼ to choose one from MARK1 - MARK3.

3 Press ENTER or ► to mark your desired scene or track.

The total elapsed time of the marked point is memorized and displayed.



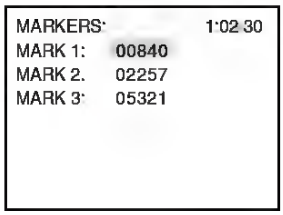
4 Repeat the step 2 and 3 above to mark.

To turn off the MARK menu
Press **MARK**.

Mark playback

1 Press MARK either while playing or when stopped.

The MARK menu appears on TV screen.



2 Press ▲/▼ to select your desired marked point, and press ENTER or ►.

MARK menu turns off and mark playback will start from the marked point.

To clear the marked point
1 Press **MARK** during playback.
2 Press ▲/▼ to select the mark point, and press **CLEAR**.

All of the marked points are cleared, either when the disc is removed or when the unit enters power standby mode.

NOTES

- Mark search may not work on multi-angle scenes or subtitles recorded portions.
- Depending on some discs, the unit cannot mark.

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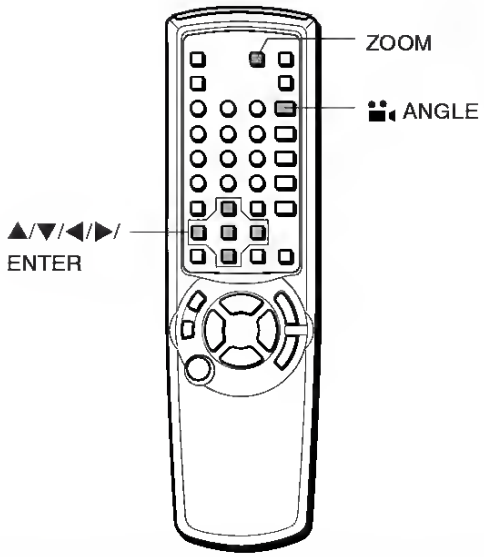
ZOOMING AND CHANGING THE ANGLE



Zoom function

DVD SVCD VCD

The function allows you to Zoom-in and enlarge the picture.

Press ZOOM during playback or Still playback.

The zoom area changes each time the button is pressed, as shown below.

ZOOM 1 → ZOOM 2 → ZOOM 3 → NO ZOOM →

To move the zoom area
Press ▲/▼/◀/▶.

To return to the normal playback
Press **ZOOM** until "NO ZOOM" is displayed.

NOTES

- Some DVDs may not respond to Zoom function.
- Zoom function does not work on DVDs recorded with PAL format.
- Zoom function may not work on multi-angle scenes.

Changing the angle

DVD

When playing a DVD which has been recorded in multi-angle (photographed from several different angles), you can select which angle you would like to view the action from.

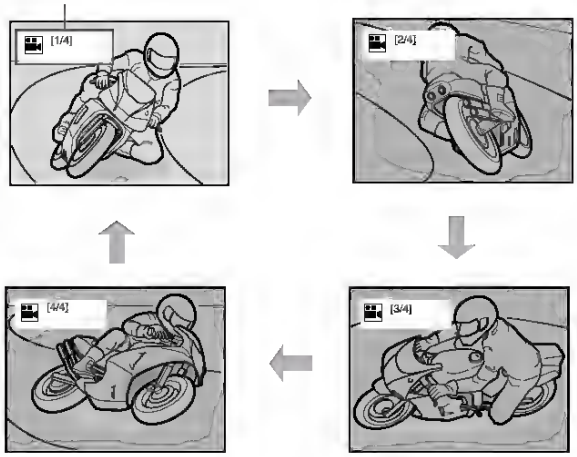
When a multi-angle scene comes on during playback, "ANGLE" lights in the display window to let you know that you can change the angle.

1 Press ANGLE once during playback.

"[1/4]" appears on TV screen if the disc contains 4 scenes.

2 Within 2 seconds, press ANGLE repeatedly until the desired angle is selected.

1st out of 4 available angles for the scene.



symbol will be displayed if you press ANGLE while viewing a disc which does not have multiple viewing angles, or if viewing a part of the disc which does not allow angle selection.

En

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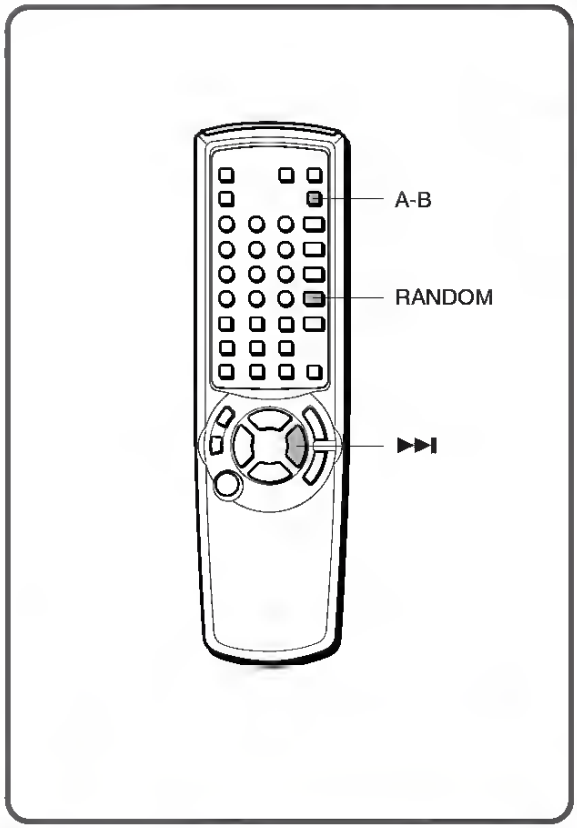
RANDOM AND REPEAT PLAYBACK



Random playback

SVCD VCD CD

1 Press RANDOM once either while playing or when stopped.

"SHUFFLE: [OFF]" appears on TV screen.

2 Within 2 seconds, press RANDOM again.

"SHUF" lights in the display window and random playback starts.
The random menu also changes to "SHUFFLE: [On]", then it will disappear after 2 seconds.

To skip another track at random
Press ▶▶I.

To return to normal playback
Press ■. Or press **RANDOM** repeatedly until "SHUFFLE: [OFF]" appears on TV screen. "SHUF" in the display window turns off.

NOTE

PBC function turns off when this function is activated.

Repeating a portion between two specified points (A-B Repeat)

DVD SVCD VCD CD

Allows you to select a portion of a track or chapter to be repeated. The portion to be repeated may not span a track boundary, but must be within a single track or chapter.

1 During playback, press A-B at the starting point of the section you want to repeat.

"REPEAT A-" appears on TV screen and "REP" lights in the display window.

2 Press A-B again at the ending point of the section you want to repeat.

"REPEAT A-B SET" appears on TV screen.
The unit returns to the point A and plays the section between the point A and the point B.

To return to the normal playback
Press **A-B** again during playback.
"REPEAT A-B CANCELLED" appears on TV screen.
A-B repeat playback is also canceled, when one of the following function buttons is pressed:
- **OPEN/CLOSE, TOP MENU, ■, I◀◀, ▶▶I, MARK, RANDOM, SLOW.**

NOTES

- During a multi-angle scene, the unit may play the different scene that you memorized by pressing **A-B**.
- The following playback cannot be played on DVDs during A-B repeat playback.
  - Frame advance, Slow playback

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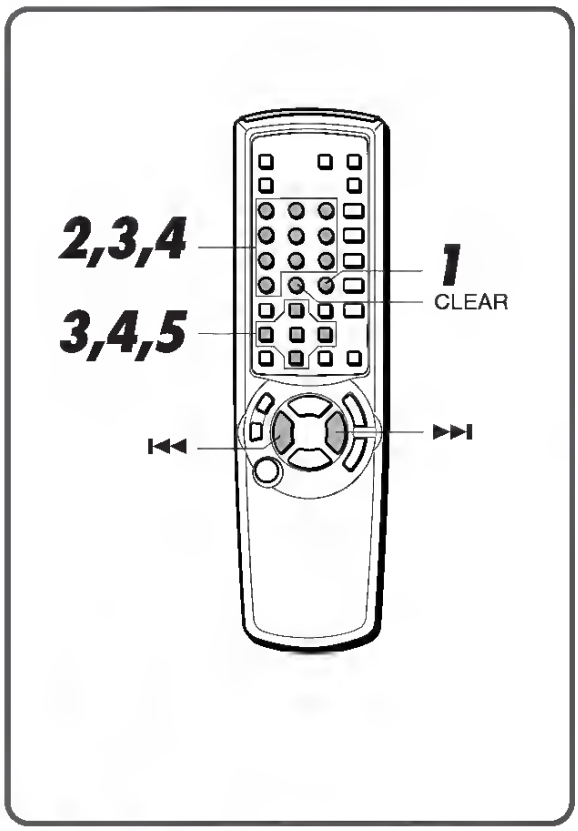
PROGRAMMED PLAYBACK



SVCD VCD CD

Up to 16 tracks can be selected and played back in any order.

1 Press PROGRAM either while playing or when stopped.

Program menu screen appears on TV screen.

```
PROGRAM EDIT:          [1-12]
1[--]  5[--]  9[--] 13[--]
2[--]  6[--] 10[--] 14[--]
3[--]  7[--] 11[--] 15[--]
4[--]  8[--] 12[--] 16[--]
      <OK> <CLEAR ALL>
```

• To exit the screen, press **PROGRAM**.

2 Press the numbered buttons to select the desired track number.

Example : To select track 3, press 3.
To select track 12, press 1 and 2.

```
PROGRAM EDIT           [1-12]
1[-3]  5[--]  9[--] 13[--]
2[--]  6[--] 10[--] 14[--]
3[--]  7[--] 11[--] 15[--]
4[--]  8[--] 12[--] 16[--]
      <OK> <CLEAR ALL>
```

3 Press ▲/▼/◀/▶ to move the cursor on the program menu in accordance with the number of programming order. Then press the numbered buttons to select the desired track number.

```
PROGRAM EDIT:          [1-12]
1[-3]  5[--]  9[--] 13[--]
2[12]  8[--] 10[--] 14[--]
3[--]  7[--] 11[--] 15[--]
4[--]  8[--] 12[--] 16[--]
      <OK> <CLEAR ALL>
```

To delete a track from the program
Press ▲/▼/◀/▶ to select the unwanted track and press **CLEAR**.

To clear all the programs
Press ▲/▼/◀/▶ to select <CLEAR ALL> and press **ENTER**.
(The programs are also cleared when the disc is removed.)

4 Repeat step 3.

5 Press ▲/▼/◀/▶ to select <OK> on the program menu. Then press ENTER or ▶.

The program menu disappears. Then "PROGRAM PLAY" appears on TV screen and playback begins in the programmed sequence.

After playback
Programmed playback is stopped.

To skip tracks
Press ⏮ or ⏭ repeatedly. Playback skips to the previous or succeeding tracks within the program.

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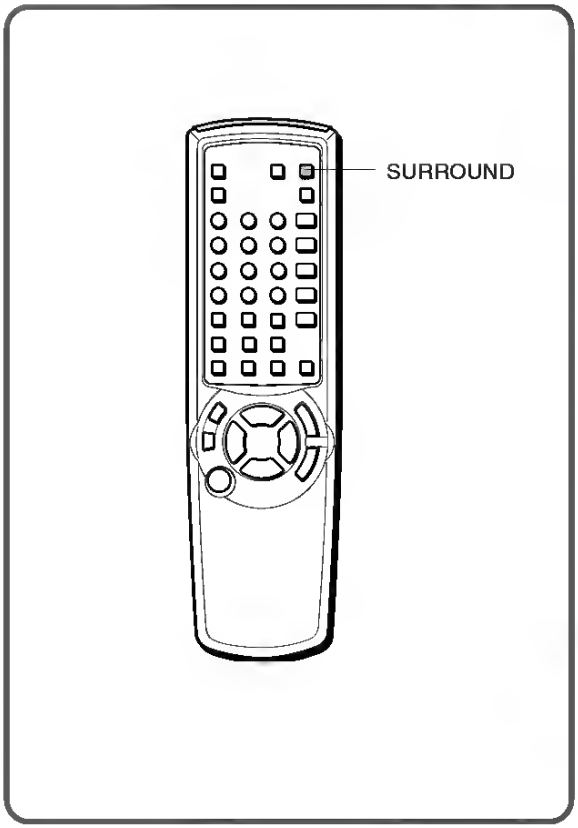
CREATING A 3D SURROUND EFFECT



DVD SVCD VCD CD

This unit can produce a 3D Surround effect, which simulates multi-channel audio playback from two conventional stereo speakers, instead of the five or more speakers normally required to listen to multi-channel audio from a home theater system.

1 Press SURROUND once either while playing or when stopped.

"SURROUND OFF" appears on TV screen.

2 Within 2 seconds, press SURROUND.

SURROUND ON/OFF menu changes to "SURROUND ON" and the 3D Surround effect works.
SURROUND ON/OFF menu will turn off after 2 seconds.

To turn off the 3D Surround effect
Press **SURROUND** repeatedly until "SURROUND OFF" is displayed.

NOTES

- 3D Surround effect cannot work if BITSTREAM is set in the AUD OUT of the setup menu.
  To work 3D Surround effect, set to DIGITAL PCM (see page 32).
- Dolby Pro Logic Surround may not work when this function is turned on.
- 3D Surround effect cannot work while Karaoke function turns on.
- This 3D Surround effect may not be available on some DVD discs, such as those recorded with a mono audio soundtrack.
- Turn off the TV surround sound and other surround effects when using this 3D Surround effect.
- Do not press **SURROUND** while recording the music. The sound signals which come from this unit are intermitted.

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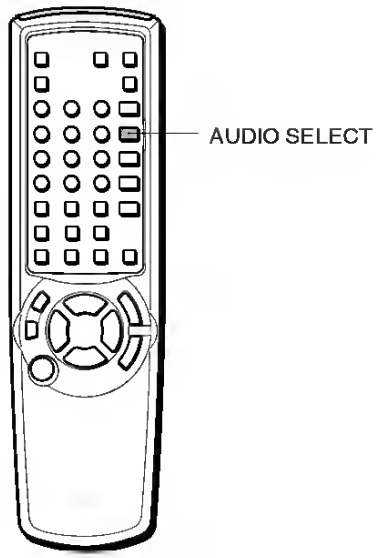
CHANGING AUDIO SOUNDTRACKS



DVD SVCD

Some discs have more than one audio track, such as soundtracks with different languages. While playing such a disc, the audio track can be changed to hear the different soundtracks.

1 Press AUDIO SELECT once during playback.

For example:
when playing back the DVD, "AUDIO : [1 ENG PCM 2CH]" appears on TV screen.
when playing back the super video CD, "AUDIO : [1]" appears on TV screen.

2 Within 2 seconds, press AUDIO SELECT repeatedly until the desired soundtrack is selected.

The AUDIO SELECT menu will turn off after 2 seconds.

- When playing a DVD with soundtracks in multiple languages, the audio will automatically be played in the language which was selected when this unit was set up. If there is not a soundtrack in that language on the disc, the disc will determine which audio track is played.
- The audio track may only be changed for discs which contain multiple audio tracks.
- The number of audio tracks available differs from disc to disc.

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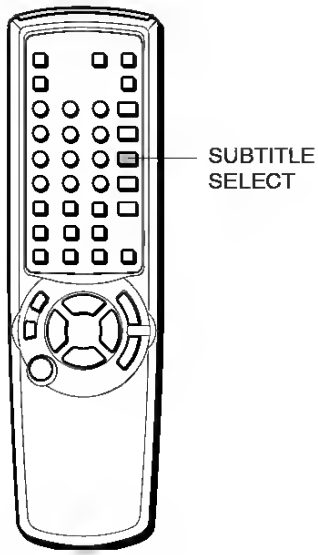
DISPLAYING AND CHANGING SUBTITLES



- The first subtitles displayed will be in the subtitle language selected with the subtitle setting (see page 32). If there are no subtitles in that language on the disc, the disc will determine which subtitles are shown.
- Subtitles may only be changed with discs which contain more than one set of subtitles.
- The number of subtitle languages varies from disc to disc.
- With some discs, it may take a few moments after you press **SUBTITLE SELECT** for the new subtitles to be displayed.

DVD

When playing DVD discs which contain subtitles, the subtitles can be displayed on the screen and the language of them can be changed.

1 Press SUBTITLE SELECT once during playback.

"SUBTITLE : [OFF]" appears on TV screen.

2 Within 2 seconds, press SUBTITLE SELECT repeatedly until the desired language is selected.

The SUBTITLE menu will turn off after 2 seconds.

To turn off the subtitle language

Press **SUBTITLE SELECT** repeatedly until "SUBTITLE : [OFF]" is displayed.

When pressing ⏮ during playback, it also turns off.

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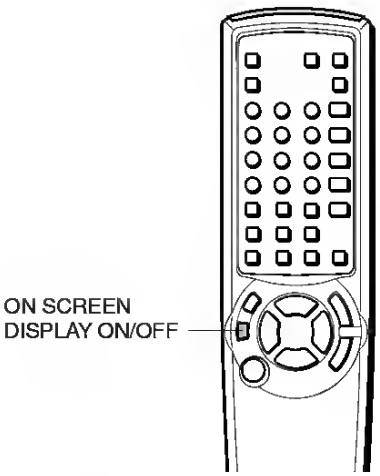
ON SCREEN DISPLAY (OSD)



General playback status can be displayed on TV screen.

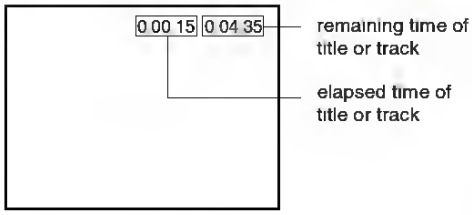
1 Press ON SCREEN DISPLAY ON/OFF once either while playing or when stopped.

DVD

The total elapsed time of title and the total remaining time of title are displayed on TV screen.

SVCD VCD CD MP3

The elapsed time of current track and the remaining time of current track are displayed on TV screen.



2 Press ON SCREEN DISPLAY ON/OFF again .

The detailed playback status is displayed as shown below.

To turn off OSD

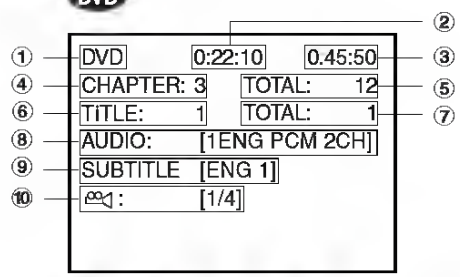
Press **ON SCREEN DISPLAY ON/OFF** until the OSD turns off.

NOTES

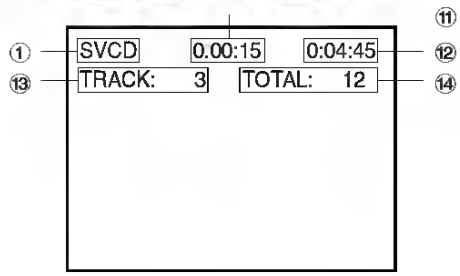
- The remaining time of current track and the total playing time cannot be displayed while playing MP3 disc.
- The only top of items turns off for 2 seconds, if you press another function button (e.g. ▶,⏮,⏭,⏸,■, etc.) while displaying OSD. To prevent this, set OSD in the setup menu to off (see page 32).
- Each letter of the OSD may shrink while playing discs recorded with NTSC format.

On Screen Display (OSD)

DVD



SVCD VCD CD MP3



①:Displays kinds of the disc;
- DVD: DVD is loaded
- SVCD: Super video CD is loaded
- VCD2.0: Video CD equipped with PBC version 2.0 is loaded
- VCD1.1: Video CD equipped with PBC version 1.1 is loaded
- CDDA: Audio CD is loaded
- MP3: MP3 disc is loaded

②:Displays the total elapsed time of title.
When stopped, total playing time of title is displayed.
③:Displays the total remaining time of title.
When stopped,"0:00:00" is displayed.
④:Displays the current chapter playing.
⑤:Displays the total number of chapters on the disc.
⑥:Displays the current title playing.
⑦:Displays the total number of title on the disc.
*⑧:Displays the audio soundtrack selected.
*⑨:Displays the subtitle language selected.
⑩:Displays the selected number of multi angle scene.
"NONE" is displayed if the disc is not recorded in multi-angle.
⑪:Displays the elapsed time of current track.
When stopped,"0:00:00" is displayed.
⑫:Displays the remaining time of current track.
When stopped, the total playing time on the disc is displayed. Not displayed while playing MP3 disc.
⑬:Displays the current track playing.
When stopped, "TRACK : 0" is displayed.
⑭:Displays the total number of tracks on the disc.

*When stopped, the selected audio soundtrack and subtitle language are not displayed correctly.

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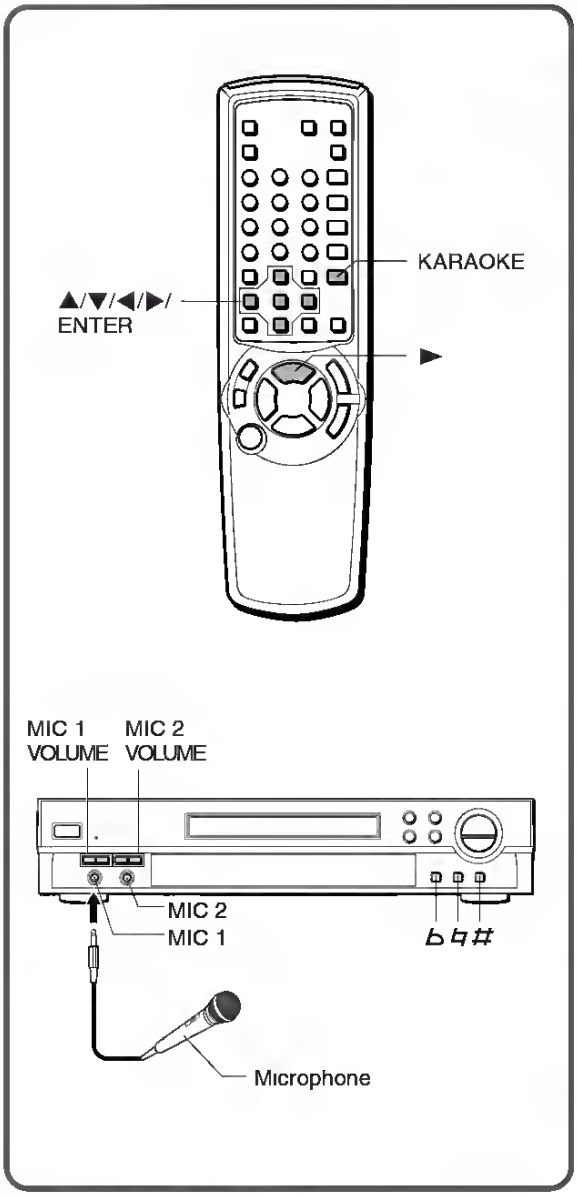
PLAYING KARAOKE



Before enjoying Karaoke

- Your singing voice through a microphone is only output from AUDIO OUT of this unit. To enjoy Karaoke, connect the unit to an audio system or AV receiver with the supplied audio cord (See page 13).
- Use microphones with standard plugs(ø 6.3mm).
- The karaoke function does not work if BITSTREAM is set in AUD OUT of the setup menu.
  To work the karaoke function, set to DIGITAL PCM (see page 32).

Recommended microphones

The use of unidirectional type microphone is recommended to prevent howling. Contact your Aiwa dealer for details.

Playing a karaoke disc

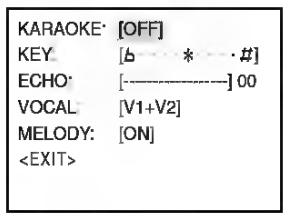
DVD SVCD VCD

1 **Connect microphone to MIC 1 or MIC 2 or to both jacks.**

2 **Load the karaoke disc.**

3 **Press KARAOKE either while playing or when stopped.**

Karaoke menu appears on TV screen.



When playing a super video CD, video CD or audio CD, "[STEREO]" is displayed in stead of "[V1+V2]".

4 **Press ▲/▼ to select KARAOKE, then press ENTER or ▶.**

"KARAOKE" lights in the display window and Karaoke function now works.

To turn off the karaoke menu

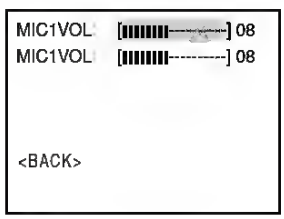
Press **KARAOKE**. Or press ▲/▼ to select <EXIT> on the karaoke menu, then press **ENTER** or ▶.
Turn off the karaoke menu after setting the karaoke menu options on the next page.

Adjusting microphone volume

1 **Press KARAOKE to display the Karaoke menu.**

2 **Press ▲/▼ to select <NEXT>, then press ENTER or ▶.**

Next page of the Karaoke menu appears.



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3 Press ▲/▼ to select MIC 1 VOL or MIC 2 VOL in correspond with connecting the microphone.

4 Press ◀/▶ to adjust the microphone volume.

The default setting of the microphone volume is 08.
Each time you press ▶, the microphone volume increases up to 16.
Each time you press ◀, the microphone volume decreases to 00.

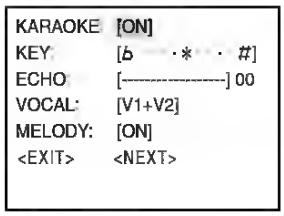
To return to the first page of Karaoke menu
Press ▲/▼ to select <BACK>, then press **ENTER** or ▶.

To adjust the microphone volume on the unit
1 **Press –/+ of MIC 1 volume or –/+ of MIC 2 volume.**
MIC volume menu appears on TV screen.
2 **Within 2 seconds, press + or –.**
Each time you press +, the microphone volume increases up to 16.
Each time you press –, the microphone volume decreases to 00.

NOTE

If a microphone is held too near the speakers, a howling sound may be produced. In this case, hold the microphone away from the speakers, or decrease the MIC 1 and MIC 2 VOLUME. If sound through the microphone is extremely loud, it may be distorted. In this case, decrease the MIC 1 and MIC 2 VOLUME.

Karaoke menu options



Key control
The key of playback sound can be higher or lower, incrementing by half tone.
1 **Press ▲/▼ to select KEY.**
2 **Press ◀/▶ to adjust the key control.**
Each time you press ▶, the key becomes higher.
Each time you press ◀, the key becomes lower.

To return to the normal
Press ◀/▶ to move the cursor to ✻.

To adjust the key control on the unit
Press ♭ or ♯.
Each time you press ♯, the key becomes higher.
Each time you press ♭, the key becomes lower.
To return to the normal key, press ♮ to return.

Echo level
The default echo level is 00, and it can be changed up to 32.
1 **Press ▲/▼ to select ECHO.**
2 **Press ◀/▶ to adjust the echo level.**

Vocal select
Audio tracks on Karaoke DVDs or audio signals can be selected.
1 **Press ▲/▼ to select VOCAL.**
2 **Press ENTER or ▶.**
Each time you press, VOCAL menu changes as follows.

DVD

▶V1+V2 → OFF → V1 → V2

V1+V2: Audio tracks of the vocal 1 and 2 are selected.
V1: Only audio track of vocal 1 is selected.
V2: Only audio track of vocal 2 is selected.
OFF: Any audio track is not selected.

SVCD VCD CD

▶STEREO → LEFT → RIGHT
R PARTNER ← L PARTNER ←

STEREO: Both left and right channel signals are output to each left and right speakers.
LEFT: Only left channel signal is output to both left and right speakers.
RIGHT: Only right channel signal is output to both left and right speakers.
L PARTNER: Left channel signal is output to both left and right speakers, only while singing with connecting the microphone.
R PARTNER: Right channel signal is output to both left and right speakers, only while singing with connecting the microphone.

Guide Melody (DVD only)
If you wish to sing only to the back grand band or orchestra unaccompanied by a vocal guide melody, set to off.
1 **Press ▲/▼ to select MELODY.**
2 **Press ENTER or ▶ to turn off the Guide Melody.**

NOTES

- The karaoke feature functions only with karaoke compatible discs.
- The voice select and Guide Melody menus may not be available on some karaoke discs.
- For more details, refer to the information supplied with the disc.

En

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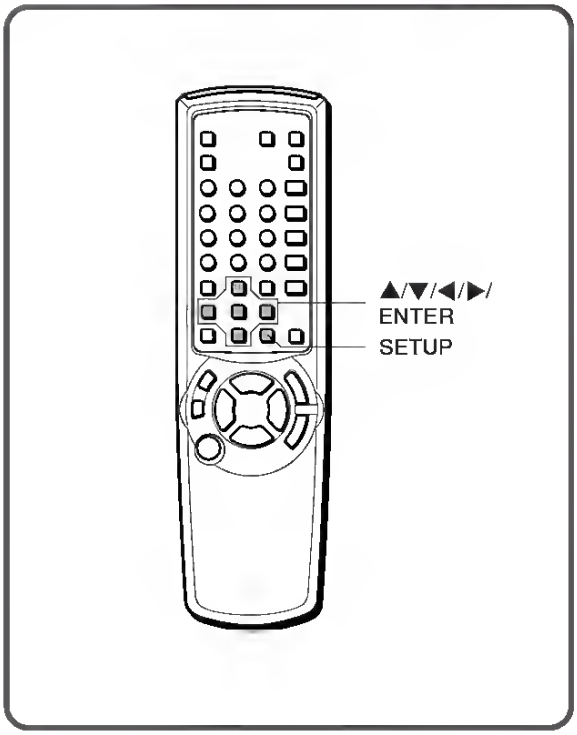
CHANGING SETUP VALUES



This unit comes from the factory with all the basic items set properly.

- Check the "AUD OUT" and "TV TYPE" settings to make sure they are correct for the type of equipment connected to this unit. For more information, refer to the "Connections" section, which begins on page 10.
- To use this unit with the NTSC TV set, change the default setting of "TV SYS" to NTSC.
- Change any other settings according to your individual setup and preferences.

Basic operations

1 Press SETUP when stopped.

The setup menu is displayed.

LANGUAGE	[ENGLISH]
SUBTITLE	[CHINESE]
AUDIO	[CHINESE]
TV TYPE	[4:3 LB ▣]
TV SYS	[PAL60]
<EXIT>	<NEXT>

To move the next page of setup menu
Press ▲/▼ to select <NEXT>, then press **ENTER** or ▶.
The next page of setup menu appears.

AUD OUT	[DIGITAL PCM]
PASSWORD	[----]
RATING	[VIEW ALL]
OSD	[ON]
<BACK>	

To return the first page of setup menu
Press ▲/▼ to select <BACK>, then press **ENTER** or ▶.

2 Press ▲/▼ to select the desired item, then press ◀/▶.

Each time you press ◀/▶, the menu option changes.

3 Press ENTER or ▶ to fix the selected menu option.

The selected menu options are preserved even if the unit is turned off.

To exit the setup menu
Press **SETUP**. Or press ▲/▼ to select <EXIT> on the setup menu, then press **ENTER** or ▶.

LANGUAGE

The displaying language of this setup menu, playback status and OSD can be changed to either English or Chinese. The default setting is [中文].

1 Press ▲/▼ to select LANGUAGE, then press ◀/▶.

Each time you press ◀/▶, the menu option changes.

[中文]: displays in Chinese.
[ENGLISH]: displays in English.

2 Press ENTER or ▶ to fix the selected menu option.

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SUBTITLE

The subtitle language on a DVD can be changed.
If the language selected is not available on the disc, the original designated by each disc will be selected.
The default setting is [CHINESE].

1 Press ▲/▼ to select SUBTITLE, then press ◀/▶.

Each time you press ◀/▶, the menu option changes.

[CHINESE]: The subtitle language is displayed in Chinese.
[OFF]: Any subtitle languages is not displayed.
[AUTO]: The same language selected at "AUDIO" is displayed.
[ENGLISH]: The subtitle language is displayed in English.

2 Press ENTER or ► to fix the selected menu option.

AUDIO (soundtrack language)

The audio soundtrack language on a DVD can be changed.
If the language selected is not available on the disc, the original designated by each disc will be selected.
The default setting is [CHINESE].

1 Press ▲/▼ to select AUDIO, then press ◀/▶.

Each time you press ◀/▶, the menu option changes.

[CHINESE]: The soundtrack language selected is displayed in Chinese.
[ENGLISH]: The soundtrack language selected is displayed in English.

2 Press ENTER or ► to fix the selected menu option.

TV TYPE

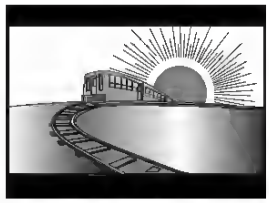
You can select the appropriate screen type according to your TV set; 4:3 Letter Box(LB), 4:3 Pan & Scan(PS) or 16:9 wide screen.
The default setting is [4:3 LB].

1 Press ▲/▼ to select TV TYPE, then press ◀/▶.

Each time you press ◀/▶, the menu option changes.

4:3 LB

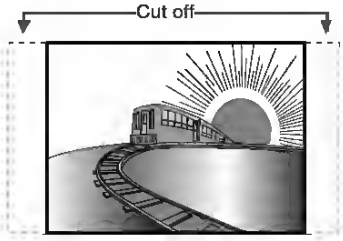
4:3 Letter Box : Select when a conventional TV set is connected. Media recorded in wide (16:9) format will be played in "Letter Box" style, with black bands at the top and bottom of the screen.



4:3 Letter Box

4:3 PS

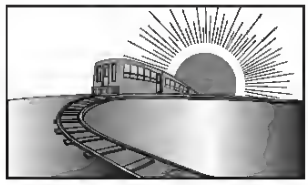
4:3 Pan & Scan : Media recorded in wide (16:9) format will be played at the full screen height, with the left and right portions cut off, for media which contains pan-scan encoding. Other media will be played in "Letter Box" style.



4:3 Pan & Scan

16:9

16:9 Wide : Select when a wide-screen TV set is connected.
Played in "FULL" size. (Setting the wide-screen TV to "FULL" mode is also necessary.)



16:9 Wide

*Each screen shows an example when the video material for a wide-screen is played.
(This setting does not affect the video material for conventional size.)

2 Press ENTER or ► to fix the selected menu option.

CONTINUE

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TV SYS

You don't need to change this option usually.
Change this option, when using this unit in other places where Color Television Broadcasting system is different from PAL format.
The default setting is [PAL60].

1 Press ▲/▼ to select TV SYS, then press ◀/▶.

Each time you press ◀/▶, the menu option changes.

[PAL60]: Select this when playing a disc recorded with NTSC. Discs recorded with NTSC format can be played at PAL60 resolution and the frame rate.

[PAL60R]: Select this when your TV set does not work properly. Discs recorded with NTSC format can be played at PAL60 resolution and the frame rate, but with the field reverse.

[AUTO]: Video signals of discs recorded with PAL format are output with PAL.
Video signals of discs recorded with NTSC format are output with NTSC.

[NTSC]: Select this if you use a NTSC TV set. But selecting this, discs recorded with PAL format cannot be played.

[PAL]: Select this if you use a PAL TV set. Discs recorded with NTSC format can be played at PAL resolution and the frame rate.

2 Press ENTER or ► to fix the selected menu option.

To return to normal, when the TV screen is distorted by selecting wrong option.

1 Press SETUP to turn off the setup menu.
2 Press OPEN/CLOSE to open the disc tray.
3 Press AUDIO SELECT repeatedly until the TV screen returns to normal.

AUD OUT (Digital Audio Output)

Each DVD has a variety of audio output options.
Set the unit's digital audio output according to the type of audio system you use.
The default setting is [DIGITAL PCM].

CAUTION
If the AV receiver is not equipped with a Dolby Digital decoder or DTS decoder, do not select "BITSTREAM" in the "AUD OUT" when connecting the AV receiver with an optical or coaxial connecting cord.
Merely attempting to play a DVD may cause a high level of noise which could be harmful to your ears and damage the speakers. In such a case, be sure to select "DIGITAL PCM".

1 Press ▲/▼ to select AUD OUT, then press ◀/▶.

Each time you press ◀/▶, the menu option changes.

[DIGITAL PCM]: Select this when connecting to an AV receiver not equipped with Dolby Digital or DTS decoder.

[BITSTREAM]: Select this when connecting to an AV receiver equipped with Dolby Digital or DTS decoder.

NOTE

3D Surround effect and Karaoke function does not work when selecting [BITSTREAM].

2 Press ENTER or ► to fix the selected menu option.

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PASSWORD

A 4-digit password can be set to prevent playback of discs with higher ratings which you set the parent lock level at the next "RATING".

1 Press ▲/▼ to select PASSWORD.

2 Input a 4-digit password using the numbered buttons.

Example : To set the 4-digit password as1234, press **1**, **2**, **3** and **4**.

When inputting a wrong number, press **CLEAR**.

Do not forget your password. The password cannot be changed until you enter the correct 4-digit password.

3 Press ENTER or ► to lock your password.

The PASSWORD changes as follows.
PASSWORD: [**** 🔒]

To unlock the 4-digit password
Input your 4-digit password, then press **ENTER** or ►.
The PASSWORD changes as follows.
PASSWORD: [- - - - 🔓]

To change your password
Unlock your 4-digit password, then repeat step 2 and 3 above.

When you forget your 4-digit password
If you forget your password, follow the procedures below.

NOTE

All of the setup menu options which you set are cleared and changed to the default settings after executing the procedures below.

1 **Press OPEN/CLOSE to open the disc tray.**
2 **Press ZOOM.**
3 **Press ▲.**
4 **Press ◀.**
5 **Press ▼.**
6 **Press ▶.**

Software code of this unit appears on TV screen and the disc tray automatically closes.

RATING (Parent lock level)

Some DVDs contain a restriction level which enables parents to cut scenes or prevent playback of discs by children. This function is linked to PASSWORD.
The default setting is [VIEW ALL].
Unlock your 4-digit password first if it is set.

1 Press ▲/▼ to select RATING, then press ◀/▶.

Each time you press ◀/▶, the menu option changes.

[VIEW ALL]: Allows any DVD to play back.
[NO ADULT]: Allows titles with a parent lock level of 5 or less to be played back.
[KID'S ONLY]: Allows only titles with a parent lock level of 1 and 2 to be played back.

The parent lock level is equivalent to the following USA movie ratings.
Example
Level 7: NC-17 Level 6: R Level 4: PG 13
Level 3: PG Level 1: G

2 Press ENTER or ► to fix the selected menu option.

After setting, make sure that the unit actually prevents playback of discs with higher ratings which you set.

When DVDs with a parent lock level are higher than what you set
This unit will prompt you to set the parent lock level to the DVD. In addition, PASSWORD menu appears if a 4-digit password was set.
To continue playback, enter your 4-digit password. All of scenes or titles will be played.

OSD (On Screen Display on/off)

Pop-up OSD messages (e.g. PLAY,STOP,PAUSE,etc.) on TV screen can be set to turn on and off.
The default setting is [ON].

1 Press ▲/▼ to select OSD, then press ◀/▶.

Each time you press ◀/▶, the menu option changes.

[ON]: Pop-up OSD messages are displayed.
[OFF]: Pop-up OSD messages are not displayed.

2 Press ENTER or ► to fix the selected menu option.

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TERMINOLOGY

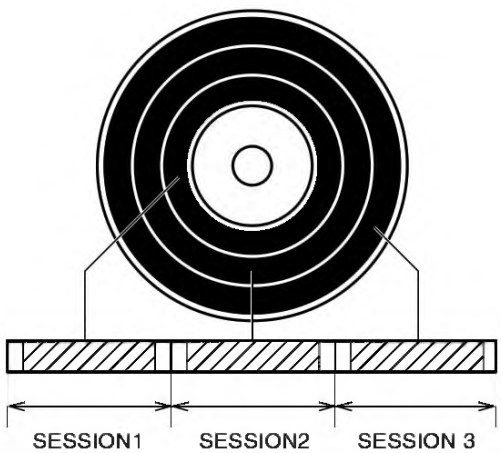
• ISO 9660
ISO stands for the "International Organization for Standardization". ISO 9660 determines the file structure for the CD-ROMs. This unit can play MP3 files recorded in the format compliant with ISO 9660.

• Nesting of folders (albums)
To organize data files stored in a PC, you can store related files in a folder. A folder can contain other folders as well as files. For example, folder A can contain folder B, and folder B can contain folder C; this is called "nesting of folders". The maximum depth of nested folders, allowed by this unit, is 2.

• Writing utilities
There are 3 utilities used to record data on a disc.

1. **DAO (Disc At Once) utility**
   All data to be written must be prepared in advance and written onto a disc from the beginning to the end in one operation. No data can be added to a disc on which data were already written with DAO utility.
2. **TAO (Track At Once) utility**
   Data are written onto a disc track by track. Data can be added to a disc on which data were written with TAO utility.
3. **Packet writing utility**
   Tracks are divided into smaller pieces while being recorded, depending on the size of available spaces on the disc. Data can be added to a disc on which data were written with packet writing utility.
   This unit can play MP3 discs recorded using DAO and TAO utilities.

• Multi-session
A session is a collection of data, covering from the beginning to the end of recording made in one operation. With TAO (Track At Once) utility, data can be recorded with several operations. A session corresponds to the data recorded in one operation. This unit only play data recorded in the first operation. In other words, the unit can only play the first session.



• File extension
A 3-character string added to a file name under Windows or DOS environment is called "file extension". A file extension is used mainly to identify types of files. File extension for MP3 files is ".mp3".

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TROUBLESHOOTING

If something seems to be wrong with this unit, first check the items in the table below.

Symptom	Check	See page
The power does not come on.	• Make sure the power cord is plugged firmly into a live outlet.	10
A disc does not play. Playback stops almost immediately.	• Is there condensation inside this unit? (Leave the player idle with the power on for 1 to 2 hours.) • Are you trying to use a disc that can't be played, such as a PHOTO CD? • Is the disc dirty? Is it loaded properly? • Does the disc exceed the specified rating level?	2 4 6, 18 35
No picture.	• Is this unit connected correctly? • Are the video connections firmly attached? • Is the television video mode set correctly?	10 10 18
The picture is bad.	• Is this unit in a place with lots of vibration? • Are the video connections firmly attached? • Is the disc dirty? • Is this unit connected directly to the television set? Or is it connected through a video deck, a selector switch, or a television with a built-in video deck? The picture may be bad when used with some television sets or projectors, due to the DVD copy protection scheme. The picture quality may also suffer if this unit is connected through a selector switch with other video equipment. Try turning off the power to the other video equipment. The picture quality may be somewhat poor when paused, when doing Frame Advance, or during fast forward or fast reverse. This is normal.	2 10 6 10
No sound.	• Is this unit connected correctly? • Are the audio connections firmly attached? • Is the connected audio equipment turned on? Is the volume set correctly? (Note that there will be no audio playback during slow playback, Frame Advance, fast forward, or fast reverse.)	10 10 18
The remote control does not work, or does not work correctly.	• Are the remote control batteries installed correctly? • Is the remote control too far from the main unit? Is there something in the way? • Are the remote control batteries getting weak? • Is this unit in sunlight or strong fluorescent light?	17 17 17 17

DVD has many capabilities

Some of these capabilities may differ based on the disc being played. The following situations may be caused by information on the disc itself.

- The audio or subtitles are not reproduced in the specified default language.
- The audio track or subtitles cannot be changed.
- There are no subtitles.
- No DVD menu. The DVD menu does not display in the language you want.
- The view angle cannot be changed.
- Everything on the disc is played back regardless of the rating level you have set.

Caution:

Abnormal functioning of this unit may be caused by static electricity, or external interference.
To restore normal function, power off and on this unit again.

AS NECESSARY

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SPECIFICATIONS

Power supply	100-240 V AC, 50/60 Hz
Power consumption	20 W (Standby: 10 W)
Weight	3.2 kg
External dimensions	430 × 85 × 300 mm (w × h × d)
Laser	Semiconductor Laser, wavelength 655/780 nm
Signal format	PAL/NTSC
Supported discs	DVD video discs 12 cm (single-sided single-layer, single-sided double-layer, double-sided double-layer) 8 cm (single-sided single-layer, single-sided double-layer, double-sided double-layer) Compact discs (CD-DA, video CD) 12 cm and 8 cm discs
S video output	Y output: 1 Vp-p (75 ohms, sync negative) C output: 0.286 Vp-p 1 Mini DIN 4 Pin
Video output	Video composite output 1 Vp-p (75 ohms, sync negative) 2 RCA jacks
Audio output	Digital output 0.5 Vp-p (75 ohms) 1 Fiber optical connector 1 RCA jack Analog output 1.8 ± 0.2 Vrms (1 kHz, 0 dB, 10 k ohms) 1 RCA jacks (L/R)
Audio output characteristics	Signal to noise ratio More than 93 dB (EIAJ) Dynamic range More than 90 dB (EIAJ) Harmonic distortion 0.015 % Frequency range: SVCD/VCD/CD: 4 Hz to 20 kHz (44.1 kHz sampling) DVD: 4 Hz to 22 kHz (48 kHz/96 kHz sampling) Wow and flutter: unmeasurable
Operating conditions	5 °C to 40 °C
Accessories	Video cable (1) Audio cable (1) Remote control (1)

Specifications are subject to change without notice.

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